CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Bridge, California, Southern Pacific R.R. making surveys, $10,000,000 or more.

Highway, California, San Francisco, Co., San Mateo Co., and Santa Cruz Co. making surveys, $8,000,000.

Factory, Los Angeles, Calif., Firestone Tire and Rubber Co. having plans prepared, $7,000,000.

Irrigation works, Calif., Fresno Foothill Irrigation Dist. voted bonds, $2,300,000.

Viaduct, Cincinnati, O., Hamilton Co. plans, $2,000,000.

Transmission lines, Texas, West Texas Utilities Co., Abilene, takes bids in September, $2,000,000.

Office, San Antonio, Tex., Smith Bros. soon take bids, $2,000,000.

Club, San Francisco, Calif., Olympic Club having plans prepared, $2,000,000.

Waterworks, San Francisco, Spring Valley Water Co. plans pipe line, $2,000,000 or more.

Apartment Hotel, Toronto, Ont., E. W. C. Godson had plans prepared, $2,000,000.

Apartment, Cleveland, O., Berkner Realty Co. having preliminary plans prepared, $1,500,000.

Causeway, Texas and Louisiana, Sabine Developers take bids about Sept. 1, $1,500,000.

Apartment, Los Angeles, Calif., L. B. Mayer and H. Rapf having plans prepared, $1,500,000.

Machinery Exchange, Los Angeles, Calif., R. Rosenberg having plans prepared, $1,500,000.

Office and store, Chicago, Ill., Syndicate having sketches made, $1,250,000.

Hotel, Chicago, Ill., Syndicate having plans prepared, $1,000,000.

Office, Detroit, Mich., Bd. Water Comrs. having plans prepared, $1,000,000.

Hotel Apartment, Los Angeles, Calif., R. A. Hill preparing preliminary plans, approximately $1,000,000.

Hotel, Long Beach, Calif., L. A. Baker, having plans prepared, $1,000,000 or more.

Bids Desired

Museum, Los Angeles, Calif., Supervs. Los Angeles Co. open bids Sept. 19, $1,250,000.

Public Safety Building, Milwaukee, Wis., Dept. Pub. Wks. opens bids Sept. 8, $1,200,000.

Masonic Temple, Atlanta, Ga., W. C. Spiker & Co. opens bids Sept. 20, $1,000,000.

Paving, Cleveland, O., Bd. Comrs. Cuyahoga Co., open bids Aug. 27, $1,000,000.

Apartment, Chicago, Ill., Huszagh & Hill taking bids, $1,000,000.

Bank and office, Los Angeles, Calif., Bennett and Haskell taking bids, $1,000,000.

Contracts Awarded

Appraisers Stores, New York, N. Y., L. Adler to Shroder and Koppel, Inc., archts. est. $6,000,000.

Civil Courts, St. Louis, Mo., Bd. Pub. Serv. to Seldon-Breck Constr. Co., $2,656,203.

Loft, Phila., Pa., Manufacturers Exchange Realty Co. to Nelson-Pedley Co., $1,500,000.

Hotel and stores, Elizabeth, N. J., Elizabeth Chamber of Commerce Hotel Co. to Deakman Wells Co., Archts. est. $1,000,000.

Apartment, Chicago, Ill., R. De Gaylor & Co. to Linn Constr. Co. and E. B. Kaiser, Archts. est. $1,000,000.

Apartment, Oakland, Calif., Bercovich and Assocs. to Thebo, Starr & Anderton, approximately $1,000,000.

News of the Week

Waterworks

Proposed Work

Mass., Spencer—Appropriated $49,500, relaying 6,000 ft. main water line. Water Dept., Town Hall, engr.

Mo., St. Louis—See "Unclassified."

Tex., Lufkin—Voted $85,000 bonds, extending waterworks.

Calif., Glendale City—P. Diederich, mgr. Pub. Serv., making plans 50 m.g. reservoir in Campbell St., $200,000.

Calif., San Francisco — Spring Valley Water Co., 425 Mason St., plans new main feeder pipe line from San Andreas Lake to companys holding reservoirs, here. $2,000 000 or more.

Calif., San Luis Obispo—San Luis Obispo Co. made plans wrought steel mains with necessary fittings, valves, pumps and motors, etc. in Acquisition & Impvt. Dist. 6. $15,000 or more. W. W. Hughes, San Luis Obispo, engr.

Calif., Santa Clara — Making plans extending mains in various streets, etc. $25,000 or more. H. B. Fisher, Growers Bank Bldg., San Jose, engr.

Bids Desired

Conn., Putnam—Sept. 8, by Bd. Water Comrs., City Hall, 11,900 ft. 8- to 16-in. c.i. waterworks; adv. E. N.-R. Aug. 25.

N. Y., Long Island City—Aug. 30, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 77th Pl., 66th Rd., 59th, 77th, 78th Sts., 2nd Ward; 13th, 14th, 22nd, 72nd and 88th Aves., Burton, Gettysburg, 160th, 166th annd 223rd Sts., 12th Rd., Cryders Lane, Parsons Blvd., etc., 3rd Ward; Woodhaven Blvd., 158th, 90th and 91st Sts., etc., in 4th Ward, here.

N. Y., New York—Aug. 31, by P. J. Dooling, comr. Purchase, Municipal Bldg., corporation cocks and hydrant repair parts to Dept. Water Supply, Gas & Electricity.

N. J., Denville—Sept. 7, by Twp. Com., Township Hall, concrete foundation for 250,000 gal. storage tank, concrete, brick and steel pump house, also constructing 250,000 gal. water storage tank, D. Sofield, twp. clk.; adv. E. N.-R. Aug. 25.

N. J., Newark—Sept. 8, by North Jersey Dist. Water Supply Comn., B. W. Moore, Jr., chn., 24 Commerce St., wire fence at Wanaque Reservoir. A. H. Pratt, ch. engr.; adv. E. N.-R. Aug. 25.

Pa., Grove City—Sept. 6, by Boro Council, C. A. Black, pres., at office C. H. Foltz, boro mgr., filtration and softening plant. Hudson & Myron, 802 Wabash Bldg., Pittsburgh, engrs.; adv. E. N.-R. Aug. 25.

Pa., Phila.—Sept. 1, by Dept. Pub. Wks., Bureau of Water, chlorine apparatus for Belmont mechanical filters, Contr. 893; steam heating, Shawmont Pumping Station, Contr. 894; intake screen house, Shawmont Station, Contr. 895; breeching insulation, Queen Lane Pumping Station, Contr. 896; 6- to 12-in. water pipe, Contr. 897; and steel doors, Shawmont Pumping Station, Contr. 898. G. H. Biles, dir.

Wis., Niagara — See "Contracts Awarded."

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Neb., Lincoln—Aug. 29, by T. H. Berg, city clk., 15,000 ft. 6- to 10-in. mains, 35 valves, seventeen 6 in. hydrants and 8,292 lb. specials, etc. $25,000. D. L. Erickson, city engr.

Okla., Seminole—Aug. 30, by P. Noe, city clk., extending 24,500 ft. 4- to 8-in. c.i. mains, etc., in various streets. $30,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted June 2.

Calif., Beverly Hills — Salisbury, Bradshaw & Salisbury, Petroleum Security Bldg., Los Angeles, taking bids 6,000 ft. 12 in. and 2,000 ft. 14 in. welded steel pipe, here, for City.

Calif., Soquel — A. L. Andrews, clk. Soquel School Dist., taking bids pneumatic water plant complete, incl. pump with 1,000 gal. per hr., 1,000 gal. steel pressure tank, etc.

Contracts Awarded

Mass., Boston—Metropolitan Dist. Water Supply Comn., 24 School St., 6,750 ft. 20 in. c.i. pipe in Hopkinton, Contr. 13, to Portland Contg. Co., 97 Exchange St., Portland, Me., $54,963. Noted Aug. 4.

N. Y., Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Avenues H, O, and T, etc., to Dragonetti Contg. Co., 1123 Clinton Ave., New York City, $13,627. Noted July 21.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, Contrs. 890 and 891, to Acme Machine Co., 27 North 38th St., $27,000 and $20,000 respectively. Noted Aug. 11.

Md., Baltimore — Bd. Awards, c.i. pipe and fittings to Bureau Water Supply, for Mayor and City Council, to R .D. Wood & Co., 400 Chestnut St., Phila., Pa., $79,036. Noted Aug. 18.

N. C., Greensboro — See "Streets and Roads."

Tenn., Nashville—Bd. Pub. Wks., at office S. H. McKay, city clk., general contract filtration plant, to Foster-Creighton Co., 4th and 1st Natl. Bldg., $566,968; steel tank, to Chattanooga Boiler & Tank Co., 1011 East Main St., Chattanooga, $3,630. Engrs. est. $760,000. Noted June 30.

O., Cincinnati—Comrs. Hamilton Co. (e.e. means engrs. estimate), 8,544 ft. 6 in. c.i. mains in Water Supply Line 55 Dist. 2, to E. Meier, 1983 Cleneay Ave., Norwood, $14,987 e.e. $17,587; 26,558 ft. 6- to 10-in. c.i. mains Water Supply Line 13, Dists. 2, 4 and 5, to Metzel, O'Hearn, Vastine & Lewin, 6th and Craig Sts., Covington, Ky., $52,180 e.e. $62,381; also 36,848 ft. 6 in. c.i. mains in Water Supply Line 62, Dists. 1 and 8, to Crumley, Jones & Crumley, 311 Temple Bar Bldg., Cincinnati, O., $68,461 e.e. $78,717. Grand total $135,628. Noted June 16.

Wis., Milwaukee—For 3,432 ft. 6- to 16-in. c.i. mains in various streets, to H. O. Schaefer, 309 Grove St., $15,755. Engrs. est. $21,600.

Wis., Niagara—Village will construct reservoir, pipe lines, etc. for water supply, by day labor. $50,000. Shields, Jordan & Roe,

See proposal advertising on page 118

TRADE "LEADITE" MARK

Registered U. S. Pat. Office

Eliminating Repairs and Maintenance Costs

TRENTON WATER WORKS, Trenton, N. J., has been using Leadite for making joints in c. i. bell and spigot water mains for a great many years with entire satisfaction.

They have laid nearly 75 miles of c. i. pipe of various sizes with Leadite joints.

Trenton has very good paved streets and they have never had to dig up a Leadite joint for repairs during all the time they have been using Leadite. They consider this excellent performance for Leadite joints.

They find the use of Leadite has reduced to a minimum repairs and maintenance costs.

Trenton Water Works has always found Leadite joints efficient and economical.

They keep a check on their distribution svstem by water waste surveys.

During the severe winter of 1917-18 Trenton Water Works had over 2000 frozen services. Many of these services were connected to mains laid with Leadite joints. They had no difficulty in thawing, with electrical apparatus, services connected with mains which were laid with Leadite joints.

Mr. Alvin Bugbee is Superintendent of the Trenton Water Works.

Specify and use LEADITE It saves at least 75%

Be sure it is LEADITE and accept no imitations

The pioneer self-caulking material for c. i. pipe. Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Waterworks (Continued)

6 South Dearborn St., Chicago, Ill., engrs. Noted June 30.

Ia., Marengo — Two tubular concrete wells, to Continental Concrete Well Co., Arkansas City, Kan., $2,800; pump house, to M. O. Burnett, Marengo, $4,400; and pump and suction mains, to C. D. Nolan, Cedar Rauids, $4,876. Grand total $12,076. Noted June 9.

Mo., Columbia — For 2 m.g. rein.-con. storage reservoir, to Simon Constr. Co., Columbia, $31,750.

Calif., Elsinore — Temescal Water Co., Corona, single arch concrete dam in Railroad Canyon, to Nevada Contg. Co., Fallon, Nev., approximately $125,000.

Calif., Monterey Park — To Amer. Cast Iron Pipe Co., Detwiler Bldg., Los Angeles, 800 ft. 4 in. 16 ft. length c.i. water pipe at $0.4382 per ft., 500 ft. 6 in. $0.6149, 4,100 ft. 8 in. $0.8817, 1,100 ft. 12 in. $1.5251, etc.

Calif., Santa Maria—A. H. Drexler, city clk., 18 in. rein.-con. pipe line in connection with waterworks, to F. H. Gates, Inc., Santa Maria, approximately $58,115.

Sewers

Proposed Work

O., Columbus — Franklin Co., Court House, soon takes bids 10,800 ft. 8- to 15-in. vitr. sewer in Marion Dist. 1, Impvt. 82. $44,000. E. G. Bradbury, Court House, annex.

Wis., Lake (St. Francis P. O.)—Making plans 10,000 ft. 8 in. vitr. clay sewers in Norwich, Sheridan, Griffen and Austin Sts., Van Beck Court, Howell, Van Beck, Burdick, Hanson, Jordan, Howard, Howell and Pine Aves. $40,000. H. C. Webster, 216 West Water St., Milwaukee, engr.

Wis., Oconomowoc — Making plans reconstructing sewage disposal plant and sewerage system. W. G. Kirchoffer, Oconomowoc, engr.

Wis., Wauwatosa—Plans 12,000 ft. 8- to 12-in. vitr. clay sewers in Ravenswood Subdivision. $30,000. J. E. Lowther, Wauwatosa, engr.

Ia., Marshalltown—Soon takes bids 17,064 ft. 15- to 48-in. vitr. clay, concrete or segment block sewers in Dists. 1, 2, 7, 8, 9 and 10.

Mo., St. Louis—See "Unclassified."

Ark., Corning—Making preliminary plans 8- to 15-in. vitr. clay sewerage system. J. R. Rhyne, City Hall, engr.

Tex., Amarillo—Making plans sewage disposal plant. To exceed $100,000. H. B. Jones, city engr. Wynkoop, Kiersted, 614 Interstate Bldg., Kansas City, Mo., consult. engr.

Tex., Lufkin—Voted $50,000 bonds, extending sewerage system.

Calif., Los Angeles—Los Angeles Co., D. D. 21, made plans 24- to 84-in. cement and rein.-con. sewers in Montebello Dist. C. E. Arnold, Hall of Records, drainage constr. engr.

Calif., Manhattan Beach (Manhattan P. O.)—L. Price, city clk., making plans vitr. sewers, house connections, etc. in Home and 2nd Sts., etc. To exceed $25,000.

Calif., Redwood City—South San Francisco D. D. 1, San Mateo Co., made plans rein.-con. drainage canal, 36 in. concrete storm sewer, rein.-con. bridges, etc. To exceed $100,000 . G. A. Kneese, Redwood City, co. surv.

Bids Desired

N. Y., New York — See "Streets and Roads."

N. J., Trenton—Aug. 30, by Twp. Com., W. C. Hart, clk., 3,802 lin.ft. 12- to 22-in. vitr., and 838 lin.ft. 30 and 33 in. rein.-con. sewers, paving, walks, etc., in Davis Tract. C. S. Sincerveaux, 135 East State St., engr.

Pa., South Williamsport (Williamsport P. O.)—Sept. 8, by W. S. Larson, boro secy., Town Hall, 3,000 ft. 15 and 18 in. sewers, etc. in various streets. M. C. Krause, 333 Pine St., engr.

D. C., Wash.—Aug. 30, by Dist. Commissioners, 13,726 lin.ft. 10 in. to 4½ x 4½ ft. sewers in various streets.

La., New Orleans—Oct. 21, by Sewerage & Water Bd., at office A. G. Moffat, secy., 526 Carondelet St., three 4,000 hp. water tube boilers; forced and induced draft fans and air preheaters; also coal pulverizers and burners, etc. G. C. Earl, genl. supt.; adv. E. N.-R. Aug. 25.

Tenn., Chattanooga—Sept. 6, by R. H. Crox, comr. Dept. Streets & Sewers, sanitary sewers and appurtenances in various streets; adv. E. N.-R. Aug. 25.

Tenn., Knoxville — Aug. 29, by Director Pub. Sewers, 12,100 ft. 8- to 15-in. rein.-con. or vitr. clay trunk and lateral sewers in Lincoln Park. W. W. Mynott, City Hall Park, engr.

Ky., Georgetown—Sept. 1, by Town, 6.5 mi. sewers, etc. in various streets. J. Nichols, city clk.; adv. E. N.-R. Aug. 25.

Ky., Louisville—Sept. 9, by Commissioners of Sewage, M. T. Crawford, chn., 5,800 ft. 5¼ x 5¼ ft. semi-elliptical rein.-con. sewer, incl. junction chamber, manholes, etc., in Bahannan Ave. Interception, Contr. 34. J. B. F. Breed, Bd. of Trade Bldg., engr.

O., Alliance—Sept. 20, at office F. D. Miller, dir. Pub. Serv., City Hall. Sewage Treatment Works, Contr. "A," Outfall Sewer, Contr. "B," and Sewage Treatment Works and Outfall Sewer, Contr. "C;" adv. E. N.-R. Aug. 25.

O., Columbus—Sept. 6, by W. H. Duffy, dir. Serv., 1,050 ft. 96 in. and 1,367 ft. 78 in. monolithic concrete or brick sewer in Denune Ave., Weber Rd. and Brement St. (North Linden Storm Sewer). $95,000. R. H. Simpson, City Hall, engr.

Ill., Chicago—Sept. 8, by C. W. Laubenheimer, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., North Side Sewage Treatment Works, Div. W. J. W. Crowe, pres.; adv. E. N.-R. Aug. 25.

Ill., Libertyville—Aug. 30, by Bd. Local Impvts., 14,460 ft. 8- to 15-in. sewers, 49 manholes, etc. in Kenloch Park; also 15,150 ft. 6 and 8 in. watermains, 39 hydrants, in Sayre Ave., etc. Kelker, De Leuw & Co., 111 West Washington St., Chicago, engrs.

Ill., Springfield—Sept. 13, by Bd. Trustees Sanitary Dist., City Hall, G. T. Cresse, pres., sewage treatment plant, clarifier mechanisms, sludge pumps, etc., Div. J. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs. Noted May 26.

Mo., Cape Girardeau—Sept. 6, by W. C. Kaempfer, city clk., 6- to 60-in. vitr. clay combined sewers in Dist. 3; adv. E. N.-R. Aug. 25.

Okla., Seminole — Aug. 30, by P. Noe, city clk., sewage disposal plant, Imhoff tank, filter and 18,800 ft. 12- to 15-in. vitr. clay sewers in various streets. $65,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted June 2.

Calif., Hayward City — City Trustees taking bids 13,800 ft. 21- to 33-in. double strength vitr. or cement pipe, etc., for outfall sewer. $65,000. J. B. Holly, city engr.

Calif., Los Angeles—Bd. Pub. Wks. taking bids constructing 2nd section Santa Monica-Venice outfall sewer. J. D. Davidson, Venice, div. engr.

Calif., Oakland—F. C. Merritt, city clk., taking bids vitr. sewer and rein.-con. culvert with appurtenances in Shafter Ave. between Bway. and Presley Way. To exceed $25,000. G. N. Randle, city engr.

Contracts Awarded

Conn., Bristol—For 8,500 ft. 8 in. drain tile sewers in various streets, to J. De Paola, Rocky Hill, Hartford. Engrs. est. to exceed $25,000.

Conn., Middletown—State, sewage disposal plant at Connecticut State Hospital for Insane, to O'Neil Bros., 22 Preston St., Hartford, $31,550. Engrs. est. $35,000.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, branch sewers in Cherokee and Hawthorne Sts., to A. Bonitatibus, 300 Mt. Pleasant Ave. $4,279 and $1,106 respectively; Ditman St., to Vattieri Pontarella, 300 Mt. Pleasant Ave. $2,482; D St., to F. C. Garofoli Co., 517 West Tioga St., $6,054; Frankford Ave., to McCoal Constr. Co., 5033 Duffield St., $4,959; Garland St., to P. Pinciatti, 4103 Roosevelt Bldg., $6,460; Josephine St., to V. S. Campellone, 812 West Venango St., $1,372; Luzerne St., to A. Mattia, 310 North 65th St., $1,040; Ontario St., to A. Casciato, 1602 Wharton Ave., $899; Wheatscheaf Lane, to J. J. McHugh, 1617 Race St., $782; and Whitaker Ave., to Mundy Paving & Constr. Co., 226 South Warnock St., $1,644. Grand total $31,077.

N. C., Greensboro—See "Streets and Roads."

O., Amherst—Sewage treatment plant, revamping and enlarging present one, 2,200 ft. 4 to 18 in. c.i. and 400 ft. 8- to 12-in. vitr. clay pipe, etc., to W. B. Kester Co., 333 North Firestone Blvd., $69,438. Engrs. est. $67,000.

O., Bay Village—To Kassouff & Co., 2400 Althen Ave., sewers in Saddler Rd. $7,422, Oakland Rd. $4,780, and Upland Rd. $8,265; also to Sprague & Burkhardt, 11811 Browning Ave., Cleveland, Parkside Rd. $18,657. Grand total $39,124.

O., Cleveland—For 500 ft. 12- to 15-in. vitr. tile sewer in West 118th St., to Assad Constr. Co., 3129 Scranton Rd. $1,899, 2,195 ft. 12- to 20-in. Carrington Ave., to E. Cesa, 2462 Baldwin Rd. $9,088, 2,125 ft. 15- to 24-in. Bennington Ave., to Yahya Bros., 3333 Woodbridge Ave. $16,019, 905 ft. 15- to 18-in. Beech Ave., and to E. P. Langenhan Constr. Co., Marshall Bldg. $4,703; 370 ft. 6 ft. 3 in. x 4 in. and 445 ft. 6 ft. rein.-con. in Barberton Creek Culvert, to E. Gedney, 14251 Superior Ave. $22,920, and 2,672 ft. 3 ft. x 4 ft. Creek east of Pearl Rd., to H. J. Scott Constr. Co., Brookpark Rd. $31,585; 530 ft. 3 ft. and 640 ft. 2 ft. 6 in. vitr. block sewer in Berea Rd., to J. Kahill & Jackson Co., Prospect 4th Bldg., $16,089; 3,078 ft. 5 ft. "C" sewer in Brooklawn Ave., to Amata Constr. Co., 12506 Union Ave., $54,636; also 1,500 ft. 20- to 27-in. vitr. clay and 1,200 ft. 3 ft. "C" brick sewer in West 157th St., to Kassouff & Co., 2400 Althen Ave., $26,988; sewer in Big Creek at Bellaire Rd., to Freeman & Jones, 5716 Euclid Ave., $21,461. Grand total $205,388.

O., Cleveland—Sewer in Green Creek, to Stevens Constr. Co., 1105 Chester Ave., $94,870.

Mich., Detroit — Hubell, Hartgering & Roth, engrs., 2640 Buhl Bldg., 9,781 ft. 12- to 18-in. vitr. and 6,116 ft. 4 and 6 in. drain tile sewers in Holy Sepulchre Cemetery, Southfield Twp., to Sager Bros., Birmingham, for Catholic Diocese, Washington Blvd. $28,548. Noted Sept. 23.

Mich., East Lansing—B. A. Faunce, city clk., 7,400 ft. 24 in. to 30 in. concrete interceptor sewer in various streets, to Central Michigan Constr. Co., Lansing, $62,641. Noted July 14.

Ill., Chicago—H. C. Laubenheimer, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., Salt Creek Intercepting Sewer Contr. 1, to States Corp., 38 South Dearborn St., $759,810. Noted June 9.

Wis., Fond du Lac — Sewage disposal plant building, to Immel Constr. Co., Fond du Lac, $107,000; pumps, to Fairbanks Morse & Co., 900 South Wabash Ave., Chicago, Ill., $7,025; c.i. pipe, to U. S. Cast Pipe & Fdry. Co., 122 South Michigan Blvd., Chicago, Ill., $8,500; and meters, to Simplex Valve & Meter Co., 68th and Upland Sts., Phila., Pa., $1,600. Grand total $124,125. Noted June 9.

Wis., Milwaukee — To Zimmermann & Zimmermann, 90th St. and National Ave., West Allis, main sewers in Blue Mound Rd. $5,838, Fairview Ave. $10,720, and 64th St. $6,552; to Wenzel & Henoch, 49th and State Sts., East Ohio Ave., $7,394; to Rousch & Busse, 321 17th Ave., Mt. Vernon Ave. $43,188; and to Clayton Constr. Co., Port Washington and Gruber Aves., St. Paul Ave. $11,926. Grand total $85,618.

Kan., Abilene — Sewer extension and pumping plant, to R. G. Tripp Constr. Co., Herington, $29,579.

Neb., Curtis—D. C. Bancroft, city clk., 20,685 ft. 8- to 12-in. concrete sewers, etc., in various streets, to Chambers Constr. Co., 1st Natl. Bank Bldg., Lincoln, $26,300. Noted July 28.

Ore., Portland—O. Laurgard, city engr., 2.5 mi. vitr. or cement sewers in 55th Ave. and 67th St. S. E., to Western Constr. Co., Ry. Exch. Bldg., $196,983. Engrs. est. $252,467.

Calif., Los Angeles—Sewers in Westgate Ave., Santa Monica Blvd., etc. (Sawtelle Storm Drain System), to Baruch Corp. & R. E. Cooney, Lincoln Bldg., $593,507, storm drain in La Brea Ave. between Hollywood and Sunset Blvds. to M. Simunovich, 3305 West 66th St., approximately $25,552; also sanitary sewers in Westwood Blvd. between Santa Monica and Pico Blvds., to S. C. Kruly, 326 North Hill St., $82,020. Grand total $701,079. Noted June 30.

Calif., Los Angeles—Sewer in Colorado Blvd. between Dahlia Dr. and Maywood Ave., to Radich & Grancich, 2810 Dobinson St., $91,818.

Waste Disposal

Proposed Work

Tex., Lufkin—Voted $20,000 bonds, incinerator.

Contracts Awarded

Wis., Shorewood (Milwaukee P. O.)—Village Bd., 30 ton per day, high temperature destructor Dutch oven type garbage incinerator, to Jones Oderless Garbage Crematory, Syndicate Trust Bldg., St. Louis Mo., $12,369. Noted July 21.

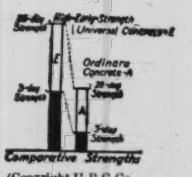
Bridges

Proposed Work

Mass., Cambridge (Boston, P.O.)—Appropriated $95,000, concrete and iron bridge, on 3rd St. Private plans.

Constr. News page 94

When time is money . . .
use High-Early-Strength concrete
made with standard (not special)
Universal Cement



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Cold-weather concreting, always practicable, is made more feasible than ever by the use of *High-Early-Strength* Universal Concrete which shortens the period during which protection from freezing is required and makes possible the early removal of forms. For full details send in the accompanying coupon.

Don't Let Winter Months Interfere With Building Plans

Now winter concreting is even more practicable than before. *High-Early-Strength* Universal Concrete (which has a 3-day strength equal to the 28-day strength of ordinary concrete) shortens the period during which protection from freezing is necessary. It hastens removal of forms.

Having a greater *ultimate* strength in addition to a higher *early* strength, it also is *permanently* better and stronger concrete, as shown in the diagram.

Don't postpone your plans because they carry construction into winter! Take advantage of plentiful materials and good labor conditions during cold weather. Then in the spring, when other buildings are being started, your job will be completed or well under way.

For full details on *High-Early-Strength* Universal Concrete, made with the *usual* materials, *usual* labor, *usual* equipment and standard Universal cement, all applied according to fully tested methods, send in the accompanying coupon.

Universal Portland Cement Co.

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Concrete for Permanence

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UNIVERSAL PORTLAND CEMENT CO.
210 South La Salle Street, Chicago

Without obligation, please send me detailed information on methods for securing strong concrete in 3 *days* with the usual materials.

ENR 8-25-27

Bridges (Continued)

Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids about Sept. 9, 10 timber bridges on Ridley-Kentucky State Line Rd., State Road 18, Lake Co. C. N. Bass, highway comr.

Tenn., Springfield — Robertson Co. and State Dept. Highways & Pub. Wks., Nashville, plan rein.-con. bridge over Sulphur Fork Creek, on State Road 75. To exceed $25,000. C. N. Bass, highway comr.

Ohio—G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, cancelled bids to have been opened July 29, concrete bridge on Sect. "E" Ohio River Rd., Clermont Co.

O., Cincinnati—Hamilton Co. plans new 78 span 3,500 ft. rein.-con. viaduct, on 8th St. $2,000,000. E. A. Gast, Court House, engr.

Tex., Karnes City — See "Streets and Roads."

Tex., Vernon—See "Streets and Roads."

California—Southern Pacific R.R. Co., G. W. Boschke, ch. engr., 65 Market St., San Francisco, making surveys replacing ferry system with bridge over Carquinez Straits, Solano and Contra Costa Counties. $10,000,000 or more.

Bids Desired

New York—See "Street and Roads."

New York and New Jersey—Sept. 12, at office J. E. Ramsey, ch. executive officer Port of New York Authority, 75 West St., New York City, abutments and earth fills for plazas of Outerbridge Crossing and Elizabeth-Howland Hook Bridge over Arthur Kill between New Jersey and Staten Island, N. Y. Noted Sept. 2, 1926.

Florida—See "Streets and Roads."

Tennessee—See "Streets and Roads."

Kentucky—Sept. 9, by State Hy. Dept., Frankfort, substructure, rein.-con. piers for steel span, two 26 and two 36½ ft. rein.-con. deck girder approach spans with sidewalks and superstructure, 180 ft. steel span with sidewalks and concrete flooring, for bridge over North Fork Kentucky River between Hazard and Louisville & Nashville R.R. Station, Perry Co. E. N. Todd, highway engr.

O., Cincinnati—Aug. 30, by C. O. Sherrill, city mgr., City Hall, 2 span 75 ft., concrete and steel bridge over West Fork Creek, for city. $35,000.

O., Dayton—Sept. 10, by Comrs. Montgomery Co., Court House, superstructure 220 ft. steel through-truss single span highway bridge, 20 ft. over Twin Creek, on Oxford-Germantown Rd. $80,000. W. O. Pease, Court House, co. surv.

Illinois—Aug. 31, by State Dept. Pub. Wks. & Buildings, Div. Highways Springfield, steel and concrete bridges on Route 12, Sect. 7-V Clay Co., Route 49, Sect. 135-B and Route 49, Sect. 136-B both Iroquois Co., Route 72, Sect. 113-B Carroll Co., Route 78, Sect. 134-B Fulton Co., Route 89, Sect. 115-B Bureau Co., Route 142, Sect. 101-B Wayne Co., Route 148, Sect. 129-B and C Williamson and Franklin Counties, Route 160, Sect. 134-B and C Madison Co. and Route 182, Sect. 101-B Marion Co. F. T. Sheets, ch. highway engr.

Iowa — Sept. 2, by State Hy. Dept., Ames, 5 bridges and 85 culverts in Clarke, Adair, Adams, Taylor, Appanoose and Franklin Counties. R. F. White, ch. engr.

Ia., Charles City — See "Streets and Roads."

Minn., Morton—Sept. 6, by State Hy. Comn., St. Paul, Bridge 4666, 3 span, 290 ft.; also for Overhead Structure 4668, 680 cu.yd. concrete, on State Project 14-24, Sect. 4, here. Eng. Dept. of owner, engrs.

Nebraska — Sept. 2, by Saunders Co. (Wahoo), Douglas Co. (Omaha) and State Dept. Pub. Wks., Lincoln, at Wahoo, removing 1,155 ft. old timber trestle and constructing Valley State Aid Bridge, new 100 ft. pony truss span, 18 ft. roadway, etc., with concrete pedestal pier and concrete abutment, 1,155 ft. new, 11,500 cu.yd. sand and 1,200 cu.yd. clay fill, 2,460 ft. guard rail, etc. R. L. Cochran, state highway engr.

Neb., Duncan—Sept. 1, by C. H. Hoge, clerk Platte Co. (Columbus), Polk Co. (Osceola) and State Hy. Dept. (Lincoln) at Columbus, Duncan State Aid Bridge nine 100 ft. truss or eighteen 50 ft. transverse joist girder span, etc. over Platte River, near here. R. L. Cochran, State House, Lincoln, state highway engr.

Neb., Ewing—Aug. 31, by E. F. Porter, clerk Holt Co., Court House, O'Neill, one 100 ft. and two 50 ft. pony truss approach spans, etc., over Elkhorn River, here. R. L. Cochran, State House, Lincoln, highway engr.

Missouri—Sept. 2, by State Hy. Comn., Jefferson City, one 12 ft., and two 20 ft. rein.-con. slab, and one 35 ft. rein.-con. deck girder spans, etc., in Bollinger Co.; two 10 ft. rein.-con. slab spans and drainage work for crossing under Missouri Pacific and Missouri, Kansas & Texas R.R. tracks, Cass Co.; four 16 ft. rein.-con. and one 60 ft. open spandrel rein.-con. arch spans, etc., Clinton Co.; two each 35 and 48 ft. and one 53 ft. rein.-con. deck girder spans, etc., Jackson Co.; two 10 ft. rein.-con. slab and one 16 ft. timber span, etc., St. Clair Co.; also 83,000 concrete right-of-way markers. T. H. Cutler, highway engr.

Ark., Dardanelle—Aug. 30, by State Hy. Comn., Little Rock, steel and concrete bridge over Arkansas River, on Federal Aid Project 244-A, Yell and Pope Counties. Former bids rejected. Noted June 30.

Tex., Houston—Aug. 31, by City, 5 span, 400 ft. rein.-con. bridge with 100 ft. steel lift span in center, extension Lockwood St. $200,000. J. C. McVea, city engr. Noted Aug. 16.

Oklahoma—Sept. 7, by State Hy. Dept., Oklahoma City, 3 span 170 ft. steel truss bridge on piers, 114 tons steel truss, etc. at Mill Creek, Johnson Co., $30,000; 3 span 170 ft. steel truss bridge on piers, 170 tons truss steel, etc. at Marietta, Love Co., $45,000; 2 span 116 ft. steel truss bridge on piers, 78.2 tons truss steel, etc. at Ringwood, Major Co., $25,000; 3 span 134 ft. steel truss bridge on piers, 96.3 tons truss steel, etc. at Antlers, Pushmataha Co., $30,000; and 46 span 750 ft. creosoted pile trestle bridge, 96,000 ft. timber, 137,000 ft. wooden piling, etc., at Norman, Cleveland Co., $40,000. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Okla., Kenton — Sept. 12, by State Hy. Dept., Oklahoma City, 16 span 511 ft. pile trestle bridge, 88,400 cu.yd. creosoted timber, etc., Cimarron Co., here, for states Oklahoma and New Mexico. $30,000. C. A. Mindigo, Capitol Bldg., Oklahoma City, engr.

Calif., Los Angeles—Sept. 6, by Supervs. Los Angeles Co., concrete and timber bridge over Big Dalton Wash, on Merced Ave.; and concrete bridge over Rubio Wash, on Mission Dr. To exceed $25,000.

Calif., Marysville—W. M. Strief, clk. Yuba Co., taking bids five 22½ ft. span rein.-con. bridge at Frenchtown Crossing; two 13 ft. span concrete bridge at McGinn Pl.; and 14 ft. span concrete bridge at Edwards House.

Bids Received

N. J., Newark—State Hy. Dept., Trenton, Aug. 22, bridges, etc., on Route 1 Extension, Sect. 14-A, Essex Co., here, from C. Meade & Co., 217 West 14th St., New York City, $1,147,405. Noted Aug. 4.

Contracts Awarded

N. J., Arcola (mail Warrenpoint)—Bd. Freeholders Bergen Co., Court House, Hackensack, replacing timber bridge with concrete and steel bridge, here, to Dansen Constr. Co., 70 Main St., Passaic, $63,779.

N. J., Bridgeboro — State Hy. Comn., State House, Trenton, single leaf bascule span bridge over Rancocas Creek, Route 2, Burlington Co., to Eastern Eng. Co., 4 N. Carolina Ave., Atlantic City, $356,668. Noted Aug. 11.

Virginia—State Hy. Dept., Richmond, bridge over Smith Creek, on Route 33, to J. S. Bowers, Whiteville, N. C., $65,721; bridge over Bull Run Creek, Route 28, to G. L. Bobbitt, Franklinton, N. C., $22,049; bridges over Hyce River and Coleman Creek, Route 18, to M. C. Turner, Durham, N. C., $27,211; and bridge over Stewart Creek, Route 17, to M. S. Hudgens & Co., Roanoke, $9,918. Grand total $124,699. Noted July 7 under "Streets and Roads."

Georgia — State Hy. Dept., East Point, bridge on Eaton-Grey-Macon Rd., Putnam Co., to E. A. Wood & Co., Andrews, N. C., $75,968. Engrs. est. $75,000.

Miss., Pascagoula—Jackson Co., two 210½ ft. steel swing spans complete with operating machinery, etc., one over Pascagoula River, here, and other over Dog River at Moss Point, to Vincennes Bridge Co., Vincennes, Ind., $86,329. Noted Jan. 6, 1926.

Kentucky — State Hy. Dept., Frankfort, **(S.P. means State Project)** to Southern Oil & Tar Co., Clay and Fulton Sts., Louisville, tar surfacing 10 mi. Hopkinsville-Pembroke Rd., S.P. 2-G, Christian Co. $6,579, 5 mi. Owingsville-Sharpsburg Rd., S.P. 21-E, Harrison Co. $11,147, and oil surfacing 4.8 mi. Cynthiana-Georgetown Rd., S.P. 58½-B, Harrison Co. $7,028; to F. G. Breslin, 32nd and Market Sts., Louisville, tar surfacing 6.46 mi. Elizabethtown-Bardstown Rd., S.P. 46-K, Hardin Co. $12,740, to Eaton Oil Wks., Covington, 6.3 mi. Florence-Burlington Rd., S.P. 5-U, Boone Co. $28,734, and to H. B. Tyler Co., 114 South 4th St., Louisville, 4.5 mi. Alexandria-Falmouth Rd., S.P. 21-B, Campbell Co. $5,933; to Carey & Reed, Lexington, oil surfacing 3.1 mi. Nicholasville-Russell Cross Roads Rd., S.P. 166-A, Jassamine Co. $25,824, and tar treating 5.6 mi. Kingston-Berea Rd., S.P. 22-G, Madison Co. $9,291. Grand total $107,276. Noted July 14.

Ohio — G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, constructing concrete bridge addition on Sect. "B" Ohio River Rd., Belmont Co., to B. C. Patterson, Van Atta, $6,057; and 122 ft. concrete bridge on Sect. "A" Dayton-Troy-Eastern Rd., Miami Co., to J. W. Weeks, Gibbons Arcade, Dayton, $20,497; also steel bridge and approaches on Sect. "F-H" Ohio River Rd., Gallia Co., to Miller Bros., Gallipolis, $14,869. Grand total $41,423.

O., Cleveland — New York Central Ry., R. O. Rote, ch. engr. (lines west of Buffalo), West 3rd St. and Lakeside Ave., excavation, masonry concrete abutments and piers for concrete and steel bridge, on Bliss Rd., to Hecker-Moon Co., 8701 Union Ave., $42,560.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridges on Route 61, Sect. 111-B, McHenry Co. and on Route 24, Sect. X-2, Tazewell Co., to Iowa Bridge Co., 1901 Easton Blvd., Des Moines, Ia., $20,614 and $10,221 respectively, on Route 24, Sect. X-1, Tazewell Co., to Continental Bridge Co., 23 West Jackson Blvd., Chicago, $3,438, on Route 30, Sect. 10-C, Stark Co., to Vincennes Bridge Co., Vincennes, Ind., $10,797, and on Route 17, Sect. 17-B, Livingston Co., to Zimmerly Bridge Co., Paris, $4,492. Grand total $49,562.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rein.-con. and steel bridge on State Route 121, Douglas Co., to Casey Constr. Co., Casey, $45,366.

Ill., Chicago—H. C. Labenheimer, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., substructure bridge over Main Drainage Canal, at Crawford Ave., to Underground Constr. Co., 130 North Wells St., $439,922. Noted July 21.

California—State Hy. Comn., Sacramento, 3 rein.-con. bridges across Arcade Creek, at points approximately 3½, 6½ and 7½ mi. east of Ben Ali, incl. one 34 ft. and one 36 ft. span bridge at Station 399-65, one 30 ft. span bridge at Station 559-82, and two 26 ft. span bridge at Station 614-92, all in Sacramento Co., to P. F. Bender, North Sacramento, $33,093. Engrs. est. $34,750.

Calif., Vernon—Concrete arch bridge, on Soto St., to Lynch-Cannon Eng. Co., Chapman Bldg., Los Angeles, $142,176. Noted Aug. 11.

Ontario—Dominion Government, Ottawa, 2 bridges in Welland, to Canadian Bridge Co., Walkerville, $739,691; and new bridge in Port Colborne, to Hamilton Bridge Wks. Ltd., Hamilton, $368,250, all over Welland Canal.

Dams

Proposed Work

Okla., Overbrook—A. Grotto, Ardmore, made preliminary plans impounding reservoir, 200 ft. dam and lake, near here. $75,000. S. Mathews, Ardmore, engr.

Contracts Awarded

S. C., Columbia—General Gas & Electric Co., W. S. Barstow, pres., 50 Pine St., New York City, N. Y., dam on Saluda River, here, to Arundel Corp., Pier 2, Pratt St., Baltimore, Md., $6,000,000. Noted Mar. 10 under "South Carolina."

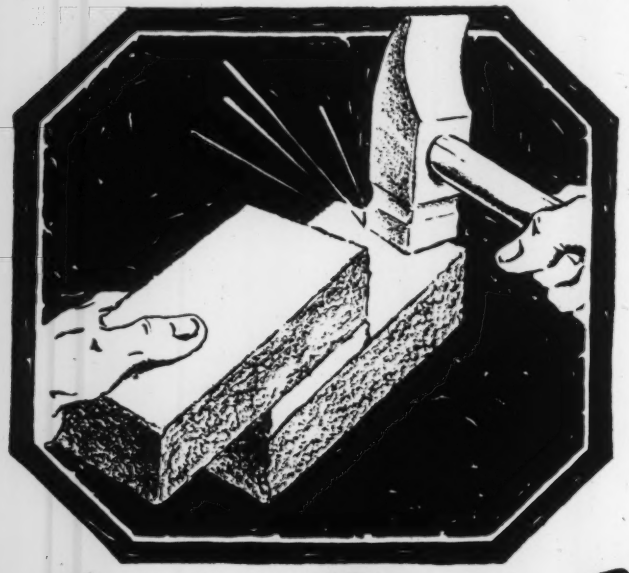
Railways

Proposed Work

Mississippi—North Division of Gulf & Ship Island R.R. Co., M. F. Mann, counsel constr., Decatur, plans 25 mi. railroad from main line in Mendenhall to Palahatachie.

Texas—Texas & Pacific Ry. E. F. Mitchell, ch. engr., Dallas, soon lets contract extending 37 mi. standard gage railroad from Breckenridge to Throckmorton. $600,000.

Constr. News page 95



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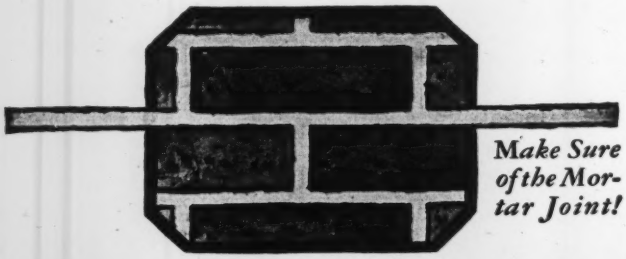

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Proposed Work

Mass. Fall River—Plans concrete retaining walls on Summit Ave. $25,000. M. Monks, City Hall, mayor. Engineer not selected.

Ill., Edwardsville — Chouteau Island Drainage & Levee Dist., c/o G. W. Crossman, Edwardsville, judge Madison Co., making preliminary plans repairing levee and drainage ditches in district Mississippi River at Chouteau Island. $26,000.

Ark., Bridge Junction—St. Francis Levee Dist. rejected bids Aug. 1, approximately 700,000 cu.yd. sub-levee work. H. N. Pharr, Bridge Junction, ch. engr. Noted July 28.

Calif., Fresno—Foothill Irrigation Dist. voted $2,300,000 bonds, irrigation works. M. Enderlein, Brix Bldg., engr.

Bids Desired

N. Y., Corona — Lewis Development Co., 47 West 34th St., New York City, taking bids 400,000 cu.yd. earth fill, etc., New Nassau Blvd. adjacent to Flushing River, here. O. E. Anderson, 47 West 34th St., New York City, engr.

N. J., North Bergen (Ind. br. Weehawken)—Sept. 1, by Bd. Educ., Town Hall, Hudson Blvd., excavation for School 9, 3 story and basement, 150 x 175 ft., brick and steel, plain foundation, 38th and 39th Sts. between Hudson Blvd. and Midway Pl. $850,000. F. Hensel, 254 Summit Ave., Union City, archt. W. Weir, 254 Summit Ave., Union City, associated archt. Noted May 26.

Ark., Pine Bluff—Aug. 29, Commissioners Linwood & Auburn Levee Dist., c/o Jones & Hooker, attys., Citizens Natl. Bank Bldg., raising and repairing levees, 100,000 cu.yd. embankment, blanket form, and 2,333 cu.yds. earth excav. in 3 ft. x 6 ft. ditch. E. Hale, Natl. Bldg., engr.

Wash., Kelso—Sept. 6, by Comrs. Cowlitz Co., raising dike in Diking Dist. 2, 86,555 cu.yd. embankment, constructing 2 ditches, 16,000 cu.yd. excav., 730 ft. 30 in. rein.-con. pipe, etc. $43,000. W. A. Middlebrooks, Kelso, engr.

Calif., Byron—Sept. 6, by G. A. Howard, secy. Byron-Bethany Irrigation Dist., 2⅝ mi. concrete canal lining.

Bids Received

N. Y., Syracuse—Bd. Contr. & Supply, City Hall, Aug. 15, covering Harbor Brook between Richmond Ave. and State Fair Blvd., from J. H. Corbett, Jr., S. A. & K. Bldg., $70,998. Noted Aug. 11.

Tex., Houston — Houston Port Comm. making plans constructing Wharves 14 and 15, at Ship Channel, from C. W. Ennis, 1401 Dowling St., $402,000. Engrs. est. $300,000.

Contracts Awarded

N. Y., New York—M. Cosgrove, comr. Docks, Pier A, Battery Pl., bulkhead wall, at East 17th St. and East River, to General Contg. & Eng. Co., 40 Rector St., $15,090. Noted July 28.

Ill., Granite City—Bd. Trustees East Side Levee & Sanitary Dist., Metropolitan Bldg., East St. Louis, straightening and revetting levee on Mississippi River, near here, incl. spreading 26,000 cu.yd. slab, and 700 cu.yd. excav. for footings, also cleaning out Harding Ditch, incl. 63,000 cu.yd. excav., to H. H. Hall, Murphy Bldg., East St. Louis, $69,780 and $31,437 respectively. Noted June 9.

Ia., Jefferson—Auditor Green Co. (Jefferson) improving Joint D. D. 18 and 35, Greene Co. (Jefferson) and Webster Co. (Ft. Dodge), tile work, to Humboldt Gravel Co., Humboldt, $39,722; laying tile, to P. Reiman, Manson, $20,275; and open work, to A. R. Eno, Rockwell City, $5,334. Grand total $65,331. Noted July 14.

California—State Harbor Comn., Sacramento, 600,000 cu.yd. dredging in Islais Creek from 3rd St. to bridge to water front line, to F. C. Franks Dredging Co., 260 California St., San Francisco, at $0.11 per yd.

Streets and Roads

Proposed Work

Mass., Boston—Dept. Pub. Wks. plans laying out and constructing Nashua and Lowell S's. as highway. To exceed $25,000. J. H. Sullivan, comr.

Mass., Brighton (Boston P. O.)—Dept. Pub. Wks., Boston, plans laying out and constructing Brooksdale Rd. and Lane Park as highway, here. $250,000. J. H. Sullivan, comr.

Mass., Cambridge (Boston, P. O.)—Appropriated $25,600 widening 3rd St. Private plans.

N. Y., Brooklyn—J. J. Byrne, pres. Brooklyn Boro, Boro Hall, rejected bids July 27, grading and granite block on 6 in. concrete paving, etc. Columbia St.; grading, sheet asphalt paving Benson, Flatlands, Gravesend and Utica Aves., East 5th, East 98th and Meserole Sts., etc. Noted July 21.

N. Y., Brooklyn—J. J. Byrne, pres. Brooklyn Boro, Boro Hall, rejected bids Aug. 8, sheet asphalt paving Gravesend Ave. Noted July 28.

N. J., Elizabeth—Union Co. plans concrete paving 1.6 mi. Burnet Ave., near here. $222,000. J. L. Bauer, Elizabeth, engr.

Kentucky—State Hy. Dept., Frankfort, **(S.P. means State Project)** rejected bids July 22, improving S.P. 21-B, Campbell Co., S.P. 58½-D Bracken Co., S.P. 21-D Pendleton Co., S.P. 61-C Bath Co., S.P. 32-L Scott Co., and S.P. 299-A Bell Co. E. N. Todd, highway engr.

Ohio — G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, cancelled bids to have been opened July 29, brick or concrete paving 3.399 mi. Sect. "F" Mansfield-Cresline Rd., Richland Co.; and waterbound macadam, bituminous macadam or concrete paving 4.667 mi. Sects. "E" and "I," Clermont Co. Noted July 28.

Ohio — G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, received no bids July 29, brick or concrete paving 0.634 mi. Sect. "Kirkersville" Natl. Rd., Licking Co. (Dept. Pub. Wks. furnishing brick, etc., $7,042). Noted July 28.

O., Akron—W. F. Peters, dir. Pub. Serv., postponed curbing, walks and vitr. brick repaving 31,215 sq.yd. East Exchange St. $199,000. Noted July 14.

O., Hamilton—Made plans grading and asphaltic concrete or bituminous macadam paving, etc., 4,500 ft. Grand Blvd., Ludlow, 2nd, Walnut, Francis, Washington and Frankfort Sts., Shuler and Kahn Aves., also Central Ave. from Walnut St. to Walnut Alley, Central Ave. Alley B from Hanover to Washington Sts., and Central Ave. Alley A from Washington St. to Washington Alley. W. Willard, city engr.

Ia., Sioux City—Soon takes bids curbing, paving, etc. 18,000 sq.yd. Clark, 22nd, Lowell, Lafayette, Grand, Dace, Fowler and South Helen Sts. $41,108.

Minn., Fergus Falls—Ottertail Co., plans expending $210,000, improving various roads. O. Skramstad, Fergus Falls, co. engr.

Minn., Minneapolis—Hennepin Co. plans paving 1.5 mi. France Avenue Extension to Minnesota Trunk Highway 5 to Shakopee, $60,000; grading East River Rd. between city limits-junction of St. Paul, Anoka Highway at Coon Creek, $70,000; grading, graveling, etc. 13.65 mi. Monticello Rd. between Jefferson Highway-Crow River Rd. $48,000 and 4.77 mi. Rockford Rd. between Greenwood town and Crow River Rd. $28,500. E. E. Terrell, Court House, co. engr.

Minn., Minneapolis—A. P. Erickson, aud. Hennepin Co., plans grading and graveling Cedar Lake-Wayzata Rd. approximately, $52,000; approximately 6 mi. Lake Independence-Hassan Rd., $34,000; 7.45 mi. Corcoran-Rockford Rd. $32,000; 3.75 mi. Excelsior-Maple Plain Rd., $29,000; 4.2 mi. North Shore Rd., $21,300; 6 mi. Carol Settlement Rd., $21,000; and 11 mi. Dayton-Shakopee Rd., $33,000. E. E. Terrell, Court House, co. engr.

Neb., Lincoln—Soon takes bids asphaltic concrete paving, etc. 12 blocks F, W and 26th Sts., Paving Dists. 429, 633 and 759. D. L. Erickson, City Hall, engr.

N. D., La Moure—La Moure Co. plans constructing 19 mi. Federal Aid Project Highway from point 4 mi. east of here from Highway 13 north through Benson Corners to Barnes Co. Line. $25,000. J. F. Cline, LaMoure, co. engr.

Mo., Joplin—Soon takes bids warrenite bitulithic paving, etc. 12,700 sq.yd. C St. $25,400, and 5 blocks Annie Baxter Ave.; also macadam paving 2,450 sq.yd. 6th St., $3,148. S. P. Ashcraft, Jr., City Hall, engr.

Mo., Neosho—Making preliminary plans grading, curbing and concrete paving 20 blocks various streets. W. E. Smith, city clk.

Mo., St. Louis—See "Unclassified."

Mo., Springfield—Soon takes bids paving 13,164 sq.yd. Robberson and Ferguson Aves. S. R. Fisher, City Hall, engr.

Ark., Eldorado—Soon takes bids grading, curbing, 6 in. rein.-con. paving, etc. 10,000 sq.yd. streets connecting with Eldorado-Smackover Rd. $30,000. W. F. Donathan, City Hall, engr.

Ark., Little Rock — C. E. Bailey, atty. Impvts. Dists. 472 and 473, 819 Rector Bldg., takes bids after Sept. 1, grading, curbing, guttering, and Warrenite bitulithic or brick on concrete, rein.-con. or vibrolithic concrete paving 16 blocks I, L, Polk and Taylor Sts., 27 to 30 ft., $58,000-$60,000. F. A. Pritchett, Reigler Bldg., engr.

Ark., Pine Bluff—Soon take bids grading, curbing and paving 12 blocks Dist. 96, on Pullen St. G. B. Smith Natl. Bank Bldg., engr.

Ark., Pine Bluff — Making preliminary plans grading, curbing, rein.-con., asphalt or asphaltic concrete paving 5 blocks Dists. 56 and 13, Laurel St. from 15th St. to 20th Ave.

Tex., Galveston—Galveston Co. making plans shell shoulders and concrete paving 1.14 mi. State Highway 6, 18 ft. $52,140. C. C. Washington, Galveston, co. engr.

Tex., Jacksonville — Cherokee Co., defeated $3,000,000 bonds, constructing roads and highways.

Tex., Karnes City—Karnes Co. making plans grading, bridging, 1 in. rock asphalt on stone paving 5.838 mi. Highway 16, 18 ft. $190,000. E. L. Marek, Karnes City, engr.

Tex., Leakey—Real Co. soon takes bids caliche on stone surfacing 18.195 mi. Highway 41, from Edwards Co. line to Kerr Co. line. $66,000. B. K. Mason, Leakey, engr.

Tex., Lufkin—Voted $125,000 bonds, paving various streets.

Tex., Plemons—Hutchinson Co. voted $1,250,000 bonds, hardsurfacing various roads. Address W. R. Goodwin, Plemons, co. judge.

Tex., Refugio—Voted $1,250,000 bonds, constructing roads and highways. Address T. W. McGuill, Refugio, co. judge.

Tex., Vernon—Franklin Co. plans graveling and bridging 34 mi. Highway 49. $26,350. Engineer not selected.

Colorado—State Hy. Dept., Denver, rejected bids Aug. 6, grading 2.277 mi. road north of Chattanooga on Highway 19, Federal Aid Project 300-A, San Juan Co., L. D. Blauvelt, Denver, engr.

Ore., Klamath Falls—Klamath Co. takes bids about Oct. 11, grading and surfacing 6 roads. $500,000. G. Henry, Klamath Falls, co. engr.

California — San Francisco Co. (San Francisco), San Mateo Co. (Redwood City), and Santa Cruz Co. (Santa Cruz), making surveys Ocean Shore Highway from San Francisco to Santa Cruz. $8,000,000. M. M. O'Shaughnessy, city engr. of San Francisco. E. M. Kneese, Redwood City, surv. San Mateo Co., and L. K. Bowman, Santa Cruz, surv. Santa Cruz Co.

Calif., Arcadia—G. G. Meade, city clk., making plans curbing, and 4 in. macadam paving, etc., 2nd and Live Oak Aves., etc. $25,000 or more.

Calif., Fullerton—Making plans removing portions present paving and Topeka repaving East Commonwealth and North Berkeley Aves., etc. $25,000 or more.

Calif., San Diego—Common Council plans grading, curbing and 6 in. concrete paving 198,288 sq.ft. Narragansett Ave. F. M. Lockwood, city engr. Noted June 9.

Calif., San Diego—Common Council plans grading, walks and 6 in. concrete paving, etc., 124,916 sq.ft. Goldfinch, Thorn Sts., etc.; also curbing, grading, and 6 in. concrete paving 96,244 sq.ft. Hill and Trumbull Sts., etc. F. M. Lockwood, city engr.

Calif., San Fernando — I. A. Swartout, city clk., making plans curbing, walks and concrete paving, etc., 5th St. and Harding Ave., etc. $25,000 or more.

Calif., Santa Barbara—Making plans curbing, guttering, Durite on asphaltic concrete paving, etc. Pedregosa St., etc. $25,000 or more.

Bids Desired

New York—Sept. 9, by A. W. Brandt, comr. Highways, Albany, constructing 17.78 mi. highways in Dutchess, Montgomery and Sullivan Counties; also reconstructing bridges on highways in Albany, Chenango, Dutchess, Greene, Franklin, Madison, Ontario, Steuben, Ulster, Saratoga, Schenectady and Washington Counties; adv. E. N.-R. Aug. 25.

N. Y., Brooklyn—Aug. 31, by J. J. Byrnes, pres. Brooklyn Boro, Boro Hall

Constr. News page 96

MOBILITY

THIS contractor says, "The high speed of the INDUSTRIAL is great for moving from one job to another over city pavements." That's another version of the contractor's problem of getting profit from all jobs—not just high spotting the big ones and losing on smaller work. INDUSTRIALS cut the costs between jobs as well as on material handling.

You, too, can profit by using INDUSTRIALS. Speed, ease of operation and adaptability to all kinds of work are factors in "INDUSTRIAL" material handling that make the day shorter for the operator and profit longer for you.

The limited space forbids telling the many points that have caused hundreds of satisfied users to write us about the performance of their INDUSTRIALS.

Your work is no exception. Let us prove it by putting an INDUSTRIAL to work on one of your tough jobs.

Write for Catalog 120-C for complete mechanical details.

Crawling Tractor Cranes, Shovels, Draglines, Locomotive Cranes, 5 to 75 tons, Wrecking Cranes 75 to 200 tons, Freight Cranes, Transfer Tables, Railsaws, Pile Drivers, Clamshell Buckets, Steam Pile Hammers.

INDUSTRIAL WORKS, BAY CITY, MICHIGAN

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New York City 50 Church St. | Philadelphia, Pa. Packard Building | Pittsburgh, Pennsylvania Federal Reserve Building | San Francisco, Calif. Monadnock Building | St. Louis, Mo. Railway Exchange Bldg.

Streets and Roads (Continued)

grading, etc. Autumn Ave. and East 94th and 95th Sts.; grading and concrete paving, etc. Bedford Ave. and Glenwood Rd.

N. Y., New York—Aug. 30, by J. Miller, pres. Manhattan Boro, Municipal Bldg., granite block on concrete repaving West End Ave., and Henshaw St. (B St.), etc.; recurbing, flagging and reflagging, and granite block paving, etc. 12th Ave., etc.; grading, curbing, flagging, etc. West 43rd and 47th Sts.

N. Y., New York—Aug. 30, by W. J. Flynn, acting pres. Bronx Boro, Crotona Park, Tremont and 3rd Aves., bituminous concrete on concrete paving, etc. portions Lacombe and Castle Hill Aves.; grading, etc. portion Lacombe Ave.; curbing, guttering, sidewalks, sheet asphalt on concrete paving, etc. portions Rochambeau, and Delafield Ave.; grading, curbing, guttering, sidewalks, and sheet asphalt on concrete paving, etc. portion Barretto St.; grading, curbing, guttering, cross walks, sidewalks, asphalt blocks on concrete paving portions East 233rd St. and Lafayette Ave.; grading, curbing, sidewalks, etc. portion 251st St., White Plains Rd., Noble, La Combe, Morris Park and Orloff Ave.; sewers, etc in portion East 233rd and Ordell Sts., Byron and Radcliffe Aves.

New Jersey — Sept. 12, by State Hy. Comn., Trenton, gravel surfacing, bridging, and 8 in. double line rein.-con. paving 21,500 sq.yd. Route 14, Sect. 18, Mays Landing, Atlantic Co. A. L. Grover, ch. clk.; adv. E. N.-R. Aug. 25.

N. J., Bayonne—Aug. 26, by Bd. Boulevard Comrs., Court House, Jersey City, sheet asphalt repaving 31,870 sq.yd. Hudson Co. Blvd. between West 38th and West 56th Sts., here. Private plans.

N. J., Camden—Sept. 6, by Freeholders Camden Co., 8 in. rein.-con. paving, etc., 136,478 sq.yd. Cedarbrook, Clementon, Haddonfield and Sandy Rds. $500,000. J. L. Albertson, Camden, engr.

N. J., Flemington—Aug. 30, by Freeholders Hunterdon Co., penetration macadam paving 1.46 mi. Flemington-Walnut Brook Rd., 16 ft. Grant Davis, White House Station, engr.

N. J., Freehold—Sept. 7, by Bd. Freeholders Monmouth Co., Court House, one course rein.-con. repaving 2.8 mi. Commo-Allenwood Rd. 71, Sect. 2, 20-30 ft. G. K. Allen, 60 Broad St., Red Bank, co. engr.; adv. E. N.-R. Aug. 25.

N. J., Verona (Ind. br. Montclair)—Sept. 6, by Boro Council Rooms, paving and storm sewers, etc. in approximately 1,550 lin.ft. Hillside Ave. P. K. Miller, engr.; adv. E. N.-R. Aug. 25.

Pa., Phila.—Aug. 29, by Dept. Pub. Wks., Bureau of Highways, grading, asphalt repaving, redressed granite block repaving, grading and repaving Allen, Bath and Victoria Sts.; grading and improving City Line and Northwestern Ave.; repairing bridges; and furnishing asphalt paving mixtures. G. H. Biles, dir.

Md., Baltimore—Aug. 31, by Bd. Awards, sheet asphalt paving 10,300 sq.yd. streets listed in Contr. 420. S. Purcell, City Hall, highways engr.

W. Va., Huntington—Sept. 21, by Court Cabell Co., grading, etc. 110,700 cu.yd. Projects 22 to 28 (inclusive) in Barboursville Dist. J. M. Oliver, co. engr.; adv. E. N.-R. Aug. 25.

W. Va., Robson—Sept. 7, by Fayette Co. Court, Court House, Fayetteville, J. C. Hurt, clk., native stone base course surfacing 2.5 mi. Project K-51, County Main System 1, here.

W. Va., Wheeling—Sept. 6, by Bd. Comrs. Ohio Co., T. C. Stevenson, clk., concrete paving portions Ridge Rd., Wheeling and Elm Grove Rd. A. S. Bell, co. road engr.

Florida—Sept 20, by State Road Dept., F. A. Hathaway, chn., Tallahassee, constructing roads and bridges, etc., in Putnam, Collier, Martin, Broward, Palm Beach, Sarasota, Orange, and Lake Counties. J. J. Cresap, state highway engr.

Miss., Carthage— Sept. 15, by Bd. Supervs. Leake Co., improving 4 mi. Carthage-Forest Rd., Federal Aid Project 103, 2,417 cu.yd. excav., 8,345 cu.yd. gravel 1 mi. haul, 10,271 units ½ mi. haul; also 12,517 tons washed and sand clay gravel f.o.b. Walnut Grove. H. C. Dietzer, Jackson, engr.

S. C., Greenville — Aug. 30, by G. G. Wells, city clk. at office R. W. Watson, mayor complete system of streets and sidewalks. D. A. Hulick, city engr.; adv. E. N.-R. Aug. 25.

Ala., Birmingham — Sept. 30, by City Comn., curbing, walks, guttering and 2 in. bitulithic on 6 in. concrete paving 6 blocks 50th St., 50th St. S., and 3rd Ave. S. 26 ft., $20,750; 1½ in. bitulithic on 6 in. concrete paving 6 blocks 12th St. S., 11th Pl. S. and 9th Court S., 30 ft., $35,600; sheet asphalt with 1 in. binder course and ½ in. wearing surface on 6 in. concrete paving 3 blocks 50th St. S., 26 ft., $14,750; grading, curbing, guttering, walks and 2 in. asphalt on 5 in. concrete paving 7 blocks 85th St. S., 86th St. S. and 3rd Ave. S., 30 ft., $56,000; grading and 6 in. concrete paving 4 blocks Bush Blvd. Alley $3,125, and 3 blocks 9th Court Alley S. $3,200, both 12 ft. A. J. Hawkins, city engr.

Tennessee—Sept. 16, by State Dept. Highways & Pub. Wks., Nashville, grading 155.525 mi. roads in Benton, Humphreys, Hardin, Madison, Shelby, Obion, Davidson, Rutherford, Weakley, Sullivan, Smith, Haywood, Scott, Campbell, Lake and Robertson Counties; and bridges in Loudon, Benton, Hardin, Carter, Marshall, Robertson, Union, Hamilton, Houston, Dickson and Carroll Counties. C. N. Bass, comr.; adv. E. N.-R. Aug. 25.

Kentucky—Sept. 9, by State Hy. Dept., Frankfort, surfacing 6.064 mi. Mayslick-Wedonia Rd., State Aid Project 173-A, Mason Co. E. N. Todd, highway engr. Noted July 7.

O., Barberton—Aug. 29, by Bd. Control, paving, etc. Parkview and Lloyd Sts. $25,000.

O., Cincinnati—Sept. 2, by Comrs. Hamilton Co., grading, guttering and concrete paving 55,800 sq.yd. and asphalt macadam paving 7,800 sq.yd. Cleves and Warsaw Rd. $406,345. E. A. Gast. Court House, engr.

O., Cleveland — Aug. 27, by Bd. Comrs. Cuyahoga Co., paving, etc. South Woodland (2 sections), Oakes and Sprague Rds. $1,000,000. F. Lander, Court House, engr.

O., East Fultonham—Aug. 29, by Comrs. Muskingum Co. (Zanesville), grading and brick paving, etc. ½ mi. Main St., 16 ft. $30,000.

Illinois—Aug. 31, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete, vitr. brick with asphalt filler or bituminous concrete with or without binder course surfacing 0.55 mi. Route 2, Sect. 73-V-1 Lee Co., 2.18 mi. Route 13, Sect. 17 Perry Co., 7.89 mi. Route 49, Sect. 135, and 8.06 mi. Route 49, Sect. 136 both Iroquois Co., 9.84 mi. Route 72, Sect. 114 Ogle and Carroll Counties, 1.61 mi. Route 91, Sect. 111 Peoria Co., 1.88 mi. Route 110, Sect. 115 and 3.01 mi. Route 110, Sect. 119 both Macoupin Co., and 0.78 mi. Soldiers and Widows Home Rd., Will Co.; gravel and concrete surfacing, etc. Project 7, Sect. 1-A, La Salle Co.; grading 0.39 mi. Route 12, Sect. 1-V-1 Lawrence Co., 5.82 mi. Route 51, Sect. 102-A Cook Co., 5 mi. Route 59, Sect. 106-A Lake Co., 3.28 mi. Route 72, Sect. 113-A Carroll Co., 1.46 mi. Route 78, Sect. 134-A Fulton Co., 1.22 mi. Route 89, Sect. 115-A Bureau Co., 7.44 mi. Route 142-A, Sect. 101-A Wayne Co., 1.62 mi. Route 160, Sect. 134-A Madison Co., and 6.45 mi. Route 182, Sect. 101-A Marion Co. F. T. Sheets, ch. highway engr.

Ill., Bensenville — Aug. 31, by Village, grading, curbing, guttering and paving 91,000 sq.yd. various streets; adv. E. N.-R. Aug. 25.

Wisconsin—Sept. 1, by State Hy. Comn., Div. Office 2, 206 Stephenson Bldg., Milwaukee, grading, etc., 2.5 mi. Fond du Lac-Banner Rd., State Trunk Highway 23, Federal Aid Project 427-B, Fond du Lac Co.; also grading, concrete paving, etc., 72,883 sq.yd. Blue Mound Rd., Federal Aid Project 268-A, Milwaukee Co. H. W. Vroman, div. engr.

Wisconsin—Aug. 30, by State Hy. Comn., Court House, Rhinelander, grading, gravel-ing, etc. 7,695 cu.yd. Kennan-Pennington Rd., Federal Aid Project 371-B, Price Co. F. M. Sergeant, div. engr.

Wisconsin—Sept. 2, by State Hy. Comn., Div. Office 8, 1st Natl. Bank Bldg., Superior, grading, concrete paving, etc. 45,455 sq.yd. Spooner Rd., Federal Aid Project 377-B, Douglas Co. H. F. Holmes, div. engr.

Wis., Antigo—Aug. 31, by State Hy. Comn. and C. Olsen, highway comr. Langdale Co., grading, concrete paving, etc. 77,741 sq.yd. Aniwa-Antigo Rd., State Job 7764. F. M. Sergeant, div. engr.

Ia., Charles City — Sept. 12, at office Auditor Floyd Co., gravel resurfacing 5 mi. Secondary Road Project 12; also steel or treated timber approaches and redecking 200 ft. span bridge on Rockford-Marble Rock Rd. J. H. Curtis, Charles City, co. engr.

Ia., Ft. Dodge—Aug. 30, by City, C. W. Wakeman, city clk., grading and surfacing 15 blocks 9 streets and avenues.

Ia., Orange City—Aug. 29, at office Auditor Sioux Co., grading, etc., bridge approach grade, 13,000 cu.yd. excav., etc. J. W. Wiersma, Orange City, co. engr.

Kan., Atchison — Sept. 1, by Clerk Atchison Co., grading and concrete paving, etc., 602 cu.yd. Project 2-D. R. D. Coleman, 604 North 3rd St., engr.

Kan., Holton—Aug. 31, by Clerk Jackson Co., sand or gravel surfacing 9.558 mi. Project 112 B, C and E. P. W. Wright, Holton, engr.

Kan., Seneca—Sept. 2, by Clerk Nemaha Co., grading and concrete paving 567 cu.yd. Federal Aid Project 319, Sect. C. L. P. Price, Seneca, co. engr. Noted Aug. 11.

Neb., Grand Island—Sept. 3, by District Engineer Dept. Pub. Wks., Court House, **(F.A.P. means Federal Aid Project and S.P., State Project)**, improving F.A.P. 215-B, 32,800 cu.yd. excav., 20,000 cu.yd. sta. overhaul, 43,300 sq.yd. sand graveling, 3,365 cu.yd. sand clay surfacing, etc.; 2 mi. F.A.P. 228-D, 19,700 cu.yd. excav., 12,000 cu.yd. sta. overhaul, 19,264 sq.yd. paving, 10,000 sq.yd. sand graveling, etc.; and 0.9 mi. S.A.P. 603-A, 5,700 cu.yd. excav., 3,000 cu.yd. overhaul, 9,600 sq.yd. paving, etc., all in Hall Co. R. L. Cochran, State House, Lincoln, state highway engr.

Missouri—Sept. 2, by State Hy. Comn., Jefferson City, grading, etc., 21.551 mi. roads in 9 counties; 18 ft. graveling 6.213 mi. roads in Jackson and St. Clair Counties; 18 ft. chats surfacing 16.306 mi. roads in Barton and Vernon Counties; 9 ft. concrete paving 2.644 mi. Chillicothe-South Rd., Livingston Co.; and 18 ft. concrete paving 4.303 mi. roads in Cass, Jackson, Lawrence, Linn and St. Louis Counties. T. H. Cutler, ch. engr.

Arkansas—Aug. 30, by State Hy. Comn., Little Rock, grading, bridging, etc., roads in Sebastian, Cleburne, Conway, Scott, Jackson, Calhoun, Logan and Poinsett Counties. C. S. Christian, ch. engr. Noted June 30.

Tex., Cleburne—Sept. 2, by C. H. Teesdale, engr., Cleburne, paving, etc. approximately 7 blocks Brown St. east line North Main St. intersecting with west line North Caddo St., for City. $35,000.

Tex., San Antonio — See "Contracts Awarded."

Oklahoma—Aug. 27, by State Hy. Dept., Oklahoma City, concrete surfacing 193,604 sq.yd. Federal Aid Project 139, Sects. A, B, D, E and G, Logan Co., $613,000; and 68,055 sq.yd. Federal Aid Project 139-H, Noble Co., $165,000. J. M. Page, highway engr.

Oklahoma—Sept. 7, by State Hy. Dept., Oklahoma City, **(F. A. P. means Federal Aid Project, and S. A. P. State Aid Project)**, grading, etc., 12.24 mi. S. A. P. 250-A and B, Adair Co. $75,000, 8.85 mi. S. A. P. 347, Coal Co. $40,000, 10.5 mi. F. A. P. 215-A and B, Comanche Co. $50,000, 5.87 mi. F. A. P. 202, Grady Co. $25,000, 14 mi. F. A. P. 131-A and B, $60,000, and 16 mi. F. A. P. 136-A, B and C, $70,000, all Lincoln Co., 5.1 mi. F. A. P. 230-A, Noble Co. $25,000, 20.81 mi. F. A. P. 198-A, B, C and D, Payne Co $110,000, 10.76 mi. F. A. P. 229-A and B, $50,000, and 6.85 mi. F. A. P. 230-B, $35,000, all Pawnee Co., 11.78 mi. F. A. P. 222-A and B, Seminole Co. $65,000, and 3.78 mi. S. A. P. 453, Tillman Co. $25,000; grading and bridging 1.912 mi. F. A. P. 157, Cotton Co., $25,000; concrete surfacing 42,716 sq.yd. F. A. P. 180, Garfield Co. $110,000, also 42,600 sq.yd. F. A. P. 187-A and 36,210 sq.yd. F. A P 187-B, both Stephens Co $208,000. C. A. Mindigo, Capitol Bldg., Oklahoma City, engr.

Okla., Pond Creek—Sept. 6, by M. E. Allen, city clk., grading, curbing and concrete surfacing 8,600 sq.yd. Dist. 2. $28,091. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Nevada—Aug. 31, by Directors Dept. Hys. Carson City, graveling, etc., 23,000 cu.yd. Route 2 Sect. C-1, Churchill Co. S. C. Durkee, highway engr.

Washington—Sept. 6, by State Hy. Comn., Olympia, grading and concrete paving 0.04 mi. Pacific Highway, Brier Crest Fill, King Co.; crushed graveling 12.430 cu.yd. State Road 9, Jefferson and Clallam Counties; and crushed rock surfacing 15,170 cu.yd. State Road 5, Yakima and Kittitas Counties. S. J. Humes, state highway engr.

Wash., Seattle—Sept. 6, by Comrs. King Co. grading, graveling and constructing underpass crossing on 1.75 mi. Stillwater-Snohomish Co. Line Rd. D. Evans, city engr.

Calif., Claremont—J. D. Johnson, city clk., taking bids constructing (1st unit) Arrow Route in Pomona Valley. To exceed $25,000.

Calif., Corcoran—J. C. Congdon, city clk., taking bids grading, walks, and 1½ in. Warrenite on 3½ in. asphaltic concrete paving 222,300 sq.ft. King and Chase Aves., etc. A. Segel, Griffith-McKenzie Bldg., Fresno, engr.

Calif., Fullerton—F. C. Hezmalhalch, city clk., taking bids curbing and asphaltic concrete paving West Malvern St., etc. To exceed $25,000.

Calif., Los Angeles—Sept. 6, by Supervs. Los Angeles Co., grading, curbing, walks and 2 in. sheet asphalt paving 105,340 sq.ft. and 5 in. waterbound macadam paving, etc., 102,795 sq.ft. Western Ave. $44,687. G. W. Jones, Hall of Records, engr.

Constr. News page 97

Raising the Flag of Victory

The flag-raising ceremony is an interesting and important function in the building of America's longest railroad tunnel—the new Cascade Tunnel on the Great Northern Railway.

The flag of the Mountain Goat, the symbol of the Great Northern Railway, is awarded to the crew driving the tunnel the farthest during a single month. The award is made each month, but the flag continues to float over the headquarters of the most recent winner until its record is bettered by some other crew.

The spirit of competition that is aroused has resulted in unusual progress and the making of many records.

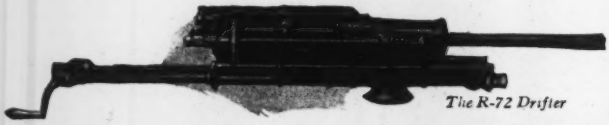
984 Feet of 10 x 10 Tunnel in 31 Days

This record was made in the East Portal of the Cascade Tunnel in September, 1926; and this was achieved with "Leyner-Ingersoll" R-72 Drifters. An advance of 984 feet of 10 x 10 tunnel through hard rock is a world's record. Greater footage has been made in tunnel driving for a 31-day period, but never before has greater distance been made in a tunnel of this size.

The amount of rock removed from 984 feet of 10 x 10 tunnel is equivalent to 3644 cars of 2-yd. capacity.

The Ingersoll-Rand R-72 Drill was selected because of its power and great drilling speed. Four drills mounted on a horizontal bar put in rounds of 30 holes in record time. Because it could stay on the job shift after shift over long periods the R-72 was made the choice for the EastPortal and Mill Creek sections of this tunnel, where hard rock has generally been encountered.

The work on the Great Northern Tunnel is being done by A. Guthrie & Co., Inc., of St. Paul, Minn., and Portland, Ore.



The R-72 Drifter

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Offices in principal cities the world over.

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Streets and Roads (Continued)

Calif., Los Angeles—Sept. 19, by Supervs. Los Angeles Co., grading, oil and rock on 6 in. disintegrated rock paving 2 mi. Lancaster Wilsonia Rd. G. W. Jones, Hall of Records, engr.

Calif., Los Angeles—Sept. 12, by Supervs. Los Angeles Co., grading, curbing, guttering, walks and oil macadam paving 70,622 sq.ft. Waltonia and Florencita Drs. $41,170. G. W. Jones, Hall of Records, engr.

Calif., Merced—P. J. Thornton, clk. Merced Co., taking new bids concrete paving 3 mi. Merced-Snelling-Merced Falls Rd., Sect. 4. W. E. Bedesen, Merced, co. surv. Former bids rejected. Noted Aug. 11.

Calif., Oakland—F. C. Merritt, city clk. taking bids grading and 2 in. Warrenite bitulithic on 6 in. concrete paving 130,266 sq.ft. East 8th St. Former bids rejected. G. N. Randle, city engr. Noted July 21.

Calif., Redwood City—Sept. 6, by E. M. Kneese, clk. San Mateo Co., grading and 6 in. concrete paving 77,000 sq.ft. Princeton Rd. G. A. Kneese, Redwood City, co. engr.

Calif., Roseville — City Trustees taking bids grading, curbing, guttering, on 2½ in. asphalt paving 25,150 sq.ft. Folsom Rd.,, etc. C. C. Kennedy, Call Bldg., San Francisco, engr.

Calif., Santa Cruz—S. A. Evans, city clk., taking bids 5 in. concrete paving, etc. portions Soquel and Seabright Aves., etc., $25,000 or more; also Soquel and Trevethan Aves., etc. R. Fowler, city engr.

Calif., Santa Paula—M. G. Demarest, city clk., taking bids curbing, walks and asphaltic concrete paving Orchard St., etc. $25,000 or more. H. E. Reddick, city engr.

Bids Received

N. Y., Rye—Grading, paving, etc. Rye Beach Approach, here. Contr. 151, from Standard Bithulithic Co., 50 Church St., New York City (A) $91,065; from Hastings Pavement Co., 25 Broad St., New York (B) $90,465; from Marshall Constr. Co., 1760 Bway., New York City (C) $79,859; and from John Arborio (D) $74,525.

N. Y., Syracuse—Bd. Contr. & Supply, Aug. 15, from Dale Eng. Corp., 1066 North Gedds St., paving Eastman Ave. $14,716, Hastings Pl. $7,887, and Shotwell Park $10,718; from Guy Dickison, Union Bldg., Hickory St. $8,148, and Wadsworth Dr. $33,346; also from Rago Bros., Union Bldg., Twin Hills Dr. $34,437, and South Geddes St. $52,075.

Contracts Awarded

New Hampshire—State Hy. Dept., Concord, Aug. 5, 3 in. on 6 in. graveling 6,412 cu.yd. Central Rd., in Strafford and Bennington, to Highland Constr. Co., Fall River, Mass., $19,146. Engrs. est. $30,000. Noted Aug. 14.

Massachusetts—Dept. Pub. Wks., Boston, graveling with bituminous surface treating 5,121 ft. highway in Gill, to Warner Bros., Sunderland, $29,448; bituminous macadam paving 5,020 ft. in Pittsfield, to Hampden Constr. Co., 98 Lincoln Park, Longmeadow $38,827, 4,100 ft. in Ayer, to R. H. Newell Co., Uxbridge $27,903, and 4,100 ft. in Marlborough, to Greenough Constr. Co., South Acton $22,097. Grand total $118,275. Noted July 28.

Conn., Bristol—Concrete curbing, guttering and sidewalks on 5,750 ft. Tulip St., to C. Vacca, Terry Rd.

Conn., East Hartford (br. Hartford)—Concrete paving various streets, to Zajicek Bros., Hebron Ave., Glasstonbury, $52,800. Engrs. est. to exceed $25,000.

New York—A. W. Brandt, comr. Highways (**e.e. means engineers estimate**), reconstructing 5.93 mi. Highway 8285, Bettsburg-McClure Rd., Part 2, Broome Co., to J. H. McAllister, Hudson, $325,353 e.e. $467,357, 8.27 mi. Repair Contr. 3180, Palatine Bridge-Fonda Rd., Parts 1 and 3, Highways 5124 and 5125, Montgomery Co., to Riteway Constr. Co., 299 Bway., New York City, $525,837 e.e. $689,082, and 0.24 mi. Repair Contr. 1636, Saranac Lake-Lake Clear Junction, Part 2, Highway 1179, Franklin Co., to L. A. Malone, Lake Placid, $9,611 e.e. $12,444, bridge and approaches on 0.18 mi. Repair Contr. 1632 Martinsburg-Turin, Highway 5077, Lewis Co., to Sheppard Constr. Serv. Inc., 1711 Spring St., Syracuse, $44,517 e.e. $55,889, and on 0.05 mi. Repair Contr. 1631, Little Valley-Randolph, Highway 5258-A, Cattaraugus Co., to H. T. Gumtow, Eden, $12,896 e.e. $15,441. Grand total $918,214. Noted July 21.

N. Y., Albany—To E. B. Stevenson, 443 Bway., concrete paving Betwood St. $25,251, Vuyler Ave. $10,517, Marwood St. $27,523, Partridge St. $12,704, Peyster St. $5,781, Lancaster St. $13,288, and Rose Court $30,090, also concrete paving approximately 1,415 ft. Holmes Court and sewers, etc. in Mereline Ave. $36,694; to H. Dumary Co., Inc., 119 State St., redressed granite and concrete repaving Hamilton St. $113,494, and vitr. brick on concrete repaving Myrtle Ave. $35,146 and to S. B. Easton, 47 Fairlawn St., New Scotland Ave. $32,192; to Campion Constr. Co., Inc., 776 Bway., concrete paving Sanders St. $9,450, and to M. F. Dollard, 36 State St., Whitehall Rd. $1,858. Grand total $383,120.

New York—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, grading Saw Mill River Rd. from Yonkers to Dobbs Ferry, to Charles Bennett Impvt. Co., 465 Fenimore Pl., Brooklyn, $271,809; also lighting system in Tibbetts Brook Park, to Ransom & Anderson, 136 Liberty St., New York City, $36,241. Noted July 21.

N. Y., Brooklyn—J. J. Byrne, pres. Brooklyn Boro, Boro Hall, granite block paving Dikeman St., to M. J. Grant, 139 Potter Ave., Astoria $46,037, and Nassau Ave., to Leonard Paving Co., Woolworth Bldg., New York City, $60,218; also sheet asphalt paving Avenue U, to G. M. Mandato Contg. Co., 201 Neck Rd., $76,611. Grand total $182,866. Noted July 28.

N. Y., Cheektowaga—Concrete paving 17 streets, and widening Pine Ridge Rd. and Harlem Ave., to Meyer & Meyer, Doat and Alexander Sts., $234,635.

N. Y., Syracuse—Bd. Contr. & Supply, City Hall, to J. H. Gallup, Merchants Bank Bldg., grading and paving Bennington Dr., $83,485; to G. Dickison, Union Bldg., Wendell Terrace, $30,968, Fineview Pl. $8,749, Oakland St. $11,122, Bruce St. $16,411, Stadium Pl. $4,972, and West Jefferson St. $32,328; to Rago Bros., Union Bldg., Emma St. $24,613, Cannon St. $14,237, and Garfield Pl. $7,253. Grand total $234,138. Noted July 14.

N. J., Jersey City — Bd. Boulevard Comrs., Court House, sheet asphalt on concrete repaving Hudson Co. Blvd. between Kensington and Stuyvesant Aves., to Uvalde Asphalt Paving Co., 2 Greene St., $89,557.

N. J., New Brunswick — Paving Jersey, Howard, Talmadge and Washington Sts., to Utility Constr. Co., 5 Spring St., $30,000.

N. J., Ocean City—Concrete paving Bay Ave., to Monihan & Hall, 31st and Asbury Sts., $81,797.

N. J., Westmont (mail Collingswood)—Haddon Twp. Com., paving, etc. Stokes, Walnut, Emerald, Elm, Elgin, Locust and Burwood Sts., to E. F. Verga, 440 Carteret Ave., Camden, $140,000.

Pennsylvania—State Hy. Comn., Harrisburg (**R. means Route and A. Application**), concrete paving 7,385 sq.yd. R. 381, A. 3951, Berks Co., to Kutztown Constr. Co., Kutztown $41,969, 11,531 sq.yd. R. 231, Adams Co., to J. S. Teeter, Taneytown, Md. $46,369, 38,153 sq.yd. R. 336, A. 4928, Northumberland Co., to Eastern States Constr. Co., Woodlawn $170,265, 8,323 sq.yd. A. 4709, Erie Co., to C. H. Fry Constr. Co., Erie $35,053, 18,905 sq.yd. A. 4279, Huntingdon Co., to L. R. Mathieu, 712 4th St., Altoona $94,855, 10,226 sq.yd. R. 57, Center Co., to Milson & Curtiss, Philipsburg $42,172, 42,803 sq.yd. R. 239, A. 4275, Columbia Co., to Colonial Constr. Co., Arrott Bldg., Pittsburgh $204,911, and 5,828 sq.yd. R. 84, Erie Co., to F. E. Winter, Erie $25,582; also rein.-con. paving, etc. 14,133 sq.yd. R. 281, Bucks Co., to Collins & Maxwell, Easton, $66,980. Grand total $728,156. Noted July 14.

Md. Baltimore — Bd. Awards, concrete paving 19,700 sq.yd. various streets, Contr. 422, to Arundel Constr. Co., Knickerbocker Bldg. $43,802; asphalt paving 8,720 sq.yd. Contr. 423, to Amer. Paving Contg. Co., Montebello Ave., $45,837. Noted Aug. 4.

Virginia—State Hy. Dept., Richmond, grading, etc. 4.7 mi. Route 14, Breckinridge Co., and 4.25 mi. Route 116, Scott Co., to Mayre & Blankenship, Chawesville, $66,024 and $57,754 respectively; bituminous macadam surfacing 2 mi. Route 10, Bedford Co., to Pace Constr. Co., Roanoke, $67,904. Grand total $191,682. Noted July 7.

West Virginia — State Road Comn., Charleston, to Price Constr. Co., Huntington, grading, etc. 5 mi. Project 2133 Marion Co. $34,005; to C. C. Fuller, Doble, O., bituminous macadam on brick surfacing also concrete shoulders on 3 mi. Project 53, Harrison Co. $64,640; to S. A. Gilmer, Lewisburg, widening brick pavement with brick shoulders and rock resurfacing 1 mi. Project 2115, Harrison Co., $39,611; to M. F. Lane, Buckhannon, concrete surfacing 1.25 mi. Project 2128 $16,221, and 1.94 mi. Project 4-A and 2130, $23,401, both Marion Co., to Ferguson Bros. Co., Shinnston, 0.5 mi. Project 2121-B, Harrison Co. $50,697, and Project 2133 Marion Co. $97,955, to M. F. Allen, Clarksburg, 1,000 ft. Project 2114, Harrison Co. $18,795, to F. H. Stanbaugh, Ada, O., Project 155-B, Sect. 1, Taylor Co. $137,021, Project 155-B, Sect. 2, Taylor Co. $69,558 and 2.67 mi. Project 155-C, Marion Co. $75,055, to Monongahela Constr. Co., Fairmont, 1.35 mi. Project 2135, Marion Co. $18,100, to F. F. Hallum & Son, Fairmont, 3.6 mi. Project 3367, Monongahela Co. $113,856; to C. Spindler Sons, Kingwood, 4 ft. concrete widening 0.85 mi. Project 2134, Marion Co., $6,178; to McKee & Ballasec, Jeffersonville, Pa., local gravel surfacing 6 mi. Project 3162-A and B, Wetzel Co., $31,860; to Stallings Constr. Co., St. Albans, grading, gravel surfacing, etc. 2.5 mi. Project 3296, Mason Co., using metal pipe, $16,377. Grand total $813,330.

W. Va., Clarksburg—Paving portion Monticello St., to T. P. Keenan Co., Clarksburg, $31,200.

W. Va., Wheeling—Ohio Co. Court, brick paving Chapline St. extension, to H. L. Seabright Co., 70-43rd St., $26,015; and grading 2 mi. Glenns Run-Cherry Hill Rd., to Stringer & Springer Constr. Co., Wheeling Bank & Trades Bldg., $45,060. Noted Aug. 4.

N. C., Greensboro—Paving and sewers in western section city, Contr. 16, to Murray Constr. Co., Greensboro, $211,152; in northern section city, to Contr. 17, also sewers and mains in various streets, Contr. 7, to R. G. Lassiter Co., Greensboro, $169,260 and $49,674 respectively. Grand total $430,085.

Georgia—State Hy. Dept., East Point, grading, etc. 6.6 mi. roadway in Bartow and Gordon Counties, to Lake Worth Constr. Co., Lake Worth, Fla., $81,154; grading and top soiling 5.516 mi. roadway, Elbert Co., to Brooks Constr. Co., Molena, $51,936; grading and sand clay surfacing 8.2 mi. roadway, Long Co., to Thompson & Moseley, Inc., 608 Tampa St., Tampa, Fla., $41,959; and surface treating 9.375 mi. Fitzgerald-Abbeville Rd., Ben Hill Co., to Cambell Contg. Co., Columbus, $155,795. Grand total $330,844.

Ga., Macon—Plain concrete 15,118 sq.yd. streets, to Hall & Bowen, 5th and Bay Sts., at $2.01 per yd.

Miss., Winona—Grading, etc. 4.423 mi. Federal Aid Project 46-B, 18 ft., to T. E. Collins & Co., Raymond, $25,720. Noted July 21.

Tenn., Nashville—See "Unclassified."

Ohio — G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, concrete paving, etc., 1.221 mi. Sect. "A" Cleveland-Elyria Rd., Cuyahoga Co., to Holmes Constr. Co., Wooster, $89,291, 1.957 mi. Sect. "B" same road, to Ohio Eng. Co., Lorain, $136,808, and 0.579 mi. Sect. "Dayton" Wooster-Massillon Rd., Wayne Co., to G. B. Herring & Son, Mansfield, $19,918; waterbound macadam paving 2.031 mi. Sect. "F" Mansfield-Cresline Rd., Richland Co., to Kenton Constr. Co., Kenton, $14,882; grading, etc., 0.379 mi. Sect. "L" McArthur-Athens Rd., Athens Co., to F. H. Beckler, Athens, $8,000, 5.628 mi. Sect. "E," etc., Canton-Steubenville Rd., Carroll Co., to Canton Sand & Gravel Co., Clarendon Ave., Canton, $29,673, Sects. F and H Ohio River Rd., Gallia Co., to Miller Bros., Gallipolis, $14,869, and 0.819 mi. Sect. "K," etc., Ohio River Rd., Washington Co., to H. Pattin, Beverly, $22,380; also 3 in. brick paving 0.6 mi. Sect. "L" Natl. Rd., Guernsey Co., to S. Renick, Cambridge, $21,799 (furnishing and delivering brick by Dept. of Pub. Wks. for same $5,390). Grand total $357,620. Noted July 28.

O., Akron—W. F. Peters, dir. Pub. Serv., grading, curbing, walks and vitr. brick paving 4,190 sq.yd. Moreley Ave., to McCourt Constr. Co., 369 South Main St., $33,885. Engrs. est. $43,600. Noted July 14.

O., Akron — Summit Co., grading and traffic bound slag paving 1.27 mi. Richfield-Hudson Rd. C. H. 19, Sect. "A-1," 18 ft., to Gray & Quillen, Millersburg, $24,958. Engrs. est. $25,900.

O., Cincinnati—Hamilton Co., grading and asphaltic macadam paving 30,600 sq.yd. Three Mile Rd., to Pickelheimer & Slone, 2312 Mound Ave., Norwood, $69,584. Engrs. est. $78,995.

O., Cincinnati—Curbing, walks and concrete repaving 5,200 sq.yd. Custer St., to O'Connell & Sweeney, Florence and Concord Sts., $31,821. Engrs. est. $34,857.

O., Cleveland—Grading, curbing and 4 mond Rd., to Highway Constr. Co., Guarin. vitr. brick paving 30,700 sq.yd. Richantee Title Bldg., $177,202; also curbing, guttering and concrete paving 57,880 sq.yd. State Rd., to Cleveland Trinidad Paving Co., The Arcade, $403,990.

O., Cleveland—Grading and paving with (a) brick (b) asphalt (c) concrete (1) East Blvd. (2) Oak Park (Sect. 1) (3) Oak Park (Sect. 2) (4) Portman Ave. (5) West 106th St. (6) West 39th St. (7) East 140th St. (8) Linn Dr. (9) West 39th St. (10) Truax Rd. (11) West 60th Pl., to Highway Constr. Co., Guarantee Title Bldg. (a1) $25,274

Constr. News page 97a

Streets and Roads (Continued)

(a2) $44,173 **(a3)** $65,785 **(a4)** $50,276 **(b5)** $46,309 **(a8)** $11,444; to Roehl Bros., 7002 Denison Ave. **(b9)** $1,789 **(a10)** $12,252 **(b11)** $5,633; to Enterprise Paving & Constr. Co., 8444 Bway. **(c6)** $7,483; to J. C. Wenrick, 1851 East 82nd St. **(c7)** $4,125; and to H. G. Herring, Wayside Rd., grading Chester Ave. $4,771. Grand total $279,314.

O., Cleveland—Paving with **(a)** brick **(b)** asphalt **(1)** West 65th St. **(2)** West 63rd St. **(3)** West 62nd St. **(4)** East 120th St. **(5)** East 106th St. **(6)** Matilda Ave. **(7)** East Blvd. **(8)** West 45th St. **(9)** West 155th St. **(10)** East 9th Pl. **(11)** Lorain Ave., to Highway Constr. Co., Guarantee Title Bldg. **(b1)** $20,473 **(b2)** $21,843 **(b3)** $20,473 **(b4)** $10,246 **(b5)** $12,546 **(a6)** $12,592 **(b7)** $16,877; to Roehl Bros., 7002 Denison Ave. **(a8)** $1,408; to Enterprise Paving & Constr. Co., 8444 Bway. **(b9)** $3,803; to Rieley Bros., The Arcade **(b10)** $5,198 **(b11)** $29,795; also to J. C. Wenrick, 1851 East 82nd St., grading West 44th St. $4,627, Xenia Court $3,623, and Osage Ave. $3,263. Grand total $166,767.

O., Dayton—Brick on concrete paving 13,350 sq.yd. Webster St., to C. C. Adams, 415 Kenwood Ave., $53,220. Noted June 9.

O., Leetonia — Grading and surfacing Lisbon and Walnut Sts., to Lewis & Copeland, Lima, $49,292. Engrs. est. $50,000. Noted Aug. 18.

Ind., Indianapolis—Asphalt paving Meridian St., to Marion Constr. Co., 1600 South West St., $68,000 and 30th, Regent and English Sts., to Indiana Asphalt Paving, 2810 Columbia St., $8,043.

Ind., Madison—Concrete paving ⅛ mi. 19th St., to Lyst & McVaugh, Anderson, $26,420 and ⅛ mi. 31st St., to W. C. Halsted, Noblesville, $28,940.

Michigan—C. L. Cougill, resident engr., Plymouth, concrete paving 0.814 mi. Mo 82-6, Contr. 4, Wayne Co., 40 ft., for State Hy. Dept., Lansing, to Wayne Co. Road Comn., Detroit, $71,391. Noted July 28.

Mich., Detroit—Concrete curbing and one course concrete paving Justine, Shields, and Sunset Aves., to Cooke Asphalt Paving Co., 1240 Penobscot Bldg., $71,527; Otsego, Rangoon Aves. to Otis Cement Constr. Co., 419 Hammond Bldg., $6,714; St. Aubin, Cardoni Aves., to Bishop & Weir, 6451 East 6 Mile Rd., $12,398; Justine, Sirron and Hickory Aves., to W. G. Tatti, 1337 Three Mile Dr., $25,851. Grand total $116,490. Noted July 14.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete paving 5.7 mi. road near Bunker Hill, State Route 112, Madison and Macoupin Counties, to Madison Constr. Co., Edwardsville, $117,530; and concrete subway near Athens, on State Route 13, to W. C. Johnson, Belleville, $16,600.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, paving Route 88, Sect. 127, Peoria Co., to Hartman-Clark Bros. Co., 330 Peoria Life Bldg., Peoria $25,712, Route 89 Sects. 126 and 127, Woodford Co., to Cameron, Joyce & Co., Keokuk, Ia. $198,897, Routes 60 and 61, Sect. 111, McHenry Co., to S. & H. Constr. Co., Milwaukee, Wis. $244,213, Route 113, Sect. 111, Will Co., to E. J. Tegge Constr. Co., Papineau $102,153, and Route 78, Sect. 133, Fulton Co., to Central Eng. Co., Putnam Bldg., Davenport, Ia. $169,200. Grand total $740,175.

Ill., Chicago—Bd. Local Impvts., grading, curbing, guttering, sewers and 7 in. concrete paving portion alley in East 670 Blk., to J. P. O'Brien & Co., North Cicero Ave., and portions 3 alleys, to Paramount Constr. Co., 107 North Clark St.; grading, curbing, guttering and asphalt on 6 in. concrete paving, etc. portions Cuyler and Parkhurst Aves., to White Paving Co., 1735 Fullerton St., portion Lowe Ave., to Amer. Asphalt Paving Co., 133 West Washington St., and portions West 17th St. and Kildare Ave., to R. F. Conway Co., 844 Rush St.; grading, curbing, guttering and 8 and 10 in. concrete paving portions South Fairfield Ave., to J. Dillon & Co., 2953 Halstead St., portion 37th St., to Ready & Callahan, 133 West Washington St., portion North Kedzie Ave., to Central Paving Co., 179 West Washington St., and portion Pine Grove Ave., to R. R. Anderson Co., 625 North Kedzie Ave.

Ill., Evanston—Bd. Local Impvts., paving portions various alleys, Payne, Darrow and Davis Sts., to M. Foley Co., Evanston, $98,100.

Wisconsin—State Hy. Comn. and E. D. Nitschke, highway comr. Dodge Co., Juneau, type B crushed graveling 17,716 cu.yd. Rubicon-South County Line Rd., Job 1089, to Balmat & Sons Constr. Co., Clear Lake, Ia. $35,846.

Constr. News page 98

Wis., Hudson—G. R. Hosford, city clk., grading and concrete paving approximately 14 542 sq.yd. various streets, to Fielding & Shepley, 1528 Bohn St., St. Paul, Minn., $33,438. Noted July 28.

Ia., Council Bluffs—Warrenite bitulithic paving 11,563 sq.yd. various streets, to J. J. Wickham, Council Bluffs, at $2.64 per sq.yd.

Ia., Decorah—Winneshiek Co. improving Decorah-Ossion Rd., 62,574 cu.yd. earth and 3.206 cu.yd. loose rock excav., to J. A. Dunkel, Webster City, $26,000. Noted July 21.

Ia., Independence — Buchanan Co., grading, etc. 6.61 mi. U. S. Road 20, Project 239, to Balmat & Son Constr. Co., Clear Lake, $34,174.

Ia., Logan — Harrison Co., to Wright Constr. Co., 1325 Main St., Des Moines, improving Federal Aid Project 214, U. S. Highway 30, 18,333 cu.yd. excav. at $0.85 per cu.yd., 101,473 sq.yd. 6in. concrete $2.21.

Ia., Oelwein—For 2½ in. brick on old concrete resurfacing 24,263 sq.yd. various streets, to Ford Paving Co., Merchants Natl. Bank Bldg., Cedar Rapids, at $1.95 per sq.yd.; 690 sq.yd. various streets to O. G. Herrick, 704 Observatory Bldg., Des Moines, $1.90.

Ia., Tipton—Cedar Co., improving Tipton-Mechanicsville Rd., County Project 3, 108,020 cu.yd. excav. at $0.28 per cu.yd., 33,000 sta.yd. overhaul $0.02, and 1,144 ft. culvert labor $0.25; to M. O. Weaver, Iowa Falls, crushed stone surfacing 19,643 cu.yd. Tipton-Rochester-West Branch Rd., Project P-527. at $2.32.

Minn., Duluth—For 6 in. concrete paving, etc. 10,778 yd. 8th St., to Thornton Bros., 318 Endicott Bldg., St. Paul, $39,769.

South Dakota—State Hy. Comn., Pierre **(F.A.P. means Federal Aid Project)**, to Dowd Bros. & Noonan-Hyde, Watertown, grading, 2.271 mi. F.A.P. 12 and 98, Minnehaha and Lincoln Counties $7,175, 4.977 mi. F.A.P. 195-B, Deuel Co. $13,066, 17.541 mi. F.A.P. 207-B, Minnehaha Co. $40,816, and 16.669 mi. F.A.P. 214-A, Marshall Co. $44,889, to Union Co. (by day labor), 3.688 mi. F.A.P. 153, Union Co., to B. O'Rourke, Aberdeen, 13.053 mi. F.A.P. 173-E, Hand Co. $24,323, to P. G. Thompson, Summit, 12.216 mi. F.A.P. 208-C, Roberts Co. $34,265, and to Western Bridge Co., 748 Peters Trust Bldg., Omaha, Neb., 6.617 mi. F.A.P. 220-B, Custer Co. $89,421; to Tobin & Maloney, Madison, graveling 13.514 mi. F.A.P. 158-B, Clay and Turner Counties $33,100, 20.983 mi. F.A.P. 187-A and E and State Project 117, Gregory Co. $37,796, 17.893 mi. F.A.P. 195-A, Hamlin Co. $16,605, 16.262 mi. F.A.P. 210-A, Hutchinson and Bon Homme Counties $35,325, 12.007 mi. F.A.P. 211-A, Charles Mix Co. $13,976, and resurfacing 15.66 mi. U. S. Highway 14, Hyde and Hand Counties $15,140; to Van & Van, Hull, Ia., 12.998 mi. F.A.P. 188-E, Kingsbury Co., $16,448, 10.776 mi. F.A.P. 191-E, Kingsbury Co. $13,049, 8.015 mi. F.A.P. 197-B, Lincoln Co. $12,124, to W. E. Bartholow & Son, Spencer, 11.97 mi. F.A.P. 188-F, Miner and Lake Counties $16,018, to R. R. Wiley, Summit, 14.027 mi. F.A.P. 171-C, Clark Co. $12,989, 18.215 mi. F.A.P. 191-D, Clark Co., $39,880, also guardrail on F.A.P. 162-D, Haakon and Jackson Counties $2,961; and F.A.P. 180-D, Corson Co. $2,064; to W. R. Larson Constr. Co., Sioux Falls, graveling 15.563 mi. F.A.P. 193-A, Brookings Co. $16,325, 19.04 mi. F.A.P. 193-B, Deuel Co., $30,601, and resurfacing 39.351 mi. U. S. Highway 14 through Brookings Co., $33,021, to H. Pickus Constr. Co., Aberdeen, 17.608 mi. F.A.P. 199-A, Clark and Codington Counties $34,382, 13.394 mi. F.A.P. 202-A, Turner and Lincoln Counties $12,741, and 16.51 mi. F.A.P. 225, Clark and Hamlin Counties $21,895, and to Lindekugel & Kolberg, Spencer, 17.107 mi. F.A.P. 204-A, Hutchinson and Turner Counties $19,112. Noted July 21.

S. D., Rapid City—C. I. Leedy, city aud., grading, curbing and concrete paving with mesh reinforcing 63,683 sq.yd. various streets, to Jensen Paving Co., Rapid City, $162,895. Noted July 21.

Mo., Joplin—Concrete paving 8,750 sq.yd. School St., to Independent Constr. Co., Pittsburg, Kan., at $1.72 per sq.yd. Noted July 7.

Mo., St. Joseph — For 6 in. concrete paving 2,873 sq.yd. 18th St. between Grand and Holman Sts., to Whitman Constr. Co., 244½ Francis St. $8,775 and 2.455 sq.yd. 18th St. between Holman and Highly Sts., to Judson Eng. & Constr. Co., 1811 Faraon St. $6,926; also asphaltic concrete paving 12,167 sq.yd. Mitchell Ave., to Land Constr. Co., Ballinger Bldg., $17,013. Grand total $32,714.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, to Trinidad Asphalt Paving Co., Title Guaranty Bldg., asphaltic concrete paving, etc. 9,060 sq.yd. Leffingwell Ave., $33,135, 2,680 sq.yd. Spring Ave., $13,943, and 1,785 sq.yd. Carlsbad Ave. $9,436; and to Bridges Asphalt Paving Co., 1470 Kentucky Ave., 43,310 sq.yd. Olive St. $239,552. Grand total $296,066. Noted July 21.

Tex., Amarillo—Potter Co. grading 10 mi. roads, to Fuqua & Pillow, Hereford, $45,000, and 6 mi. roads to T. W. Ziegler, Tulla, approximately, $30,000.

Tex., Amarillo—Brick on concrete paving 5th St. from Jackson to railroad tracks, to El Paso Bitulithic Co., Oliver-Eagle Bldg., approximately $75,000.

Tex., San Antonio—Will remove present esplanade and pave with asphalt 5 blocks Bway., $55,000; also widen and pave 3 blocks Nueva St., 60 ft., $104,000, by day labor. E. I. Ewig, city engr.

Okla., Medford — Grading, curbing and concrete paving 21,150 sq.yd. Dist. 2, to Ward-Beekman & Brooks, 1801 East 9th St., Oklahoma City, $66,132. Engrs. est. $68,910.

Okla., Seminole—Grading, curbing and concrete paving 13,400 sq.yd. Dists. 8 and 9, to Ward, Beekman & Brooks, 1801 East 9th St., Oklahoma City. $55,994. Engrs. est $56,000. Noted June 16.

Okla., Snyder—Grading, curbing and concrete paving 7,750 sq.yd. 4th, Kiowa and Comanche Sts., to Highway Constr. Co., Kennedy Bldg., Tulsa, $26,509. Engrs. est $28,227.

Ore., Portland—Grading, concrete paving, etc. 17,050 sq.yd. East line of 33rd St. to North line of Webster St., to Cochran Constr. Co., 108½ South Jersey St., $25,395 Engrs. est. $31,972.

Wash., Ruston—Bitulithic concrete paving 13,120 sq.yd. Main St., et al., to S. A. Moceri, 924 23rd Ave., Seattle $28,000.

Wash., Vancouver—Comrs. Clark Co., concrete paving 75,000 sq.yd. Vancouver-Manor Rd., to Olympic Constr. Co., Seaboard Bldg., Seattle $229,000. Engrs. est. $230,000.

California—State Hy. Comn., Sacramento, **(e.e. means engrs. est.)** grading and crushed gravel or stone surfacing approximately 2.3 mi. roadway between Stockton and Cherokee Station, San Joaquin Co., to Irey & Holden, Lodi, $37,005 e.e. $48,961; grading and waterbound macadam surfacing 3 mi. line change at Gaviota Creek Bridge point 2½ mi. north of Gaviota, Santa Barbara Co., to I. Hodson, Santa Barbara, $9,416 e.e. $10,736; asphaltic concrete paving, etc. approximately 9.1 mi. roadway between Lerdo and point 1 mi. north of Famosa, Kern Co., to Force, Currigan & McLeod, Syndicate Bldg., Oakland $191,588 e.e. $196,362, and approximately 9.4 mi. roadway between point 1 mi. north of Famosa and point 1 mi. south of Delano, Kern Co., to Valley Paving & Constr. Co., Visalia $173,122 e.e. $183,662. Grand total $411,131. Noted Aug. 4.

Calif., Atherton—Grading and waterbound macadam paving with oil and rock screenings surface Stockbridge Ave., to F. H. Ritchie, 276 Singletary Ave., San Jose, $25,098.

Calif., El Cerrito — City Trustees, oil macadam and concrete paving, etc., streets in Country Club Terrace, to California Constr. Co., 58 2nd St., San Francisco, $363,182. Noted July pl.

Calif., Long Beach—For 8 in. concrete paving, etc. 4th St. between Alamitos and Junipero Aves., etc., to Sully-Miller Co., 1500-7th St., $56,370.

Calif., Los Angeles—Asphaltic concrete paving, etc., Long Beach Ave. between Washington St. and Slausson Ave., to Griffith Co., Railway Bldg., $194,225. Noted June 9.

Calif., Los Angeles—Curbing, walks and concrete paving, etc., Redcliff St., etc. (Redcliff and Effie St. Impvt. Dist.), to McCray Co., 4482 Worth St., $100,542; also curbing, walks, guttering and National asphaltic concrete paving, etc., Verdun Ave. between La Brea Ave. and Pico Blvd., to E. Schelling, 436½ South Figueroa St., $164,395.

Calif., Los Angeles—Supervs. Los Angeles Co., curbing guttering, walks and 8 in. concrete paving 404,714 sq.ft., also 8 and 10 in. concrete paving 100,262 sq.ft., etc. Mines Ave., to J. and P. Cristich, 309 Douglas Bldg., $221,430. Engrs. est. $244,935.

Calif., Modesto — Concrete paving, etc. Sierra Dr. and Roselawn Ave., etc., to Standard Paving Co., Modesto, $25,465.

Calif., Monrovia—Curbing, guttering and 4 in. oil macadam paving, etc., Evergreen St. and Central Ave., etc., to Davidson Contg. Co., Monrovia, $39,920.

Calif., Monterey—To J. L. Connor, P. O. Box 452, improving Foam, Reeside, Drake, McClellan Sts., etc., 141,600 sq.ft. 6 in. concrete paving at $0.22 per sq.ft., 45,500 sq.

Streets and Roads (Continued)

ft. 5 in. $0.21, 37,000 sq.ft. cement walks $0.13, etc., total approximately $59,945.

Calif., Oakland—F. C. Merritt, city clk., to Heafey-Moore & McNair Co., 344 High St., improving East 8th St., etc., 156,821 sq. ft. grading at $0.015 per sq.ft. concrete curbing with steel guard $1.30, 4,544 sq.ft. concrete guttering $0.30, 130,266 sq.ft. 2 in. Warrenite bitulithic on 6 in. concrete surfacing $0.315, and 1,150 lin.ft. 10 in. sewer, etc. $2.90. Noted July 21.

Calif., Redwood City—Grading and 5 in. concrete paving, etc. St. Francis Ave. and Jefferson St., etc., to Stanley Constr. Co., Palo Alto, $61,710. Noted July 21.

Calif., Sacramento — Curbing, guttering, walks and 5 in. asphaltic concrete paving 287,445 sq.ft. Swanston Park-Unit 2, to McGillivray Constr. Co., Capitol Natl. Bank Bldg., $172,029.

Calif., San Diego—Common Council improving N and 16th Sts., to B. Noble, Spreckles Bldg., $86,151. Noted Aug. 4.

Ont., Oshawa—Curbing, guttering and sheet asphalt paving approximately 2 mi. various streets, to Standard Paving Co., Ltd., Central Chambers, Elgin St., Ottawa. Engrs. est. $150,000.

Buildings—Commercial

Proposed Work

Me., Bangor—Y, W. C. A., P. S. Ordway, chn. building com., having sketches made by V. Hodgins, 37 Hammond St., 2 or 3 story and basement, brick, plain foundation. $150,000.

Mass., East Cambridge (mail Boston)—REGISTRY of DEEDS—Middlesex Co., A. Cutting, chn., having plans prepared by C. R. Greco, 11 Beacon St., Boston, brick and steel courthouse unit for registry of deeds. $240,000. Noted May 6.

Mass., Framingham — OFFICE — West Boston Gas Co., 49 Howard St., soon lets contract 3 story, 75 x 145 ft., brick, steel and limestone, Pearl and Union Sts. $150,000. C. M. Baker, 25 Arch St., Boston, archt. Noted July 14.

Mass., Lowell — TEMPLE — Lowell Masonic Assn., C. Bartlett, chn. building com., having revised plans prepared by P. F. Gilbert, 53 Central St., 3 story and basement, 80 x 175 ft., brick and stone, plain foundation, Dutton St. $200,000. Noted Jan. 27.

Mass., Malden — APARTMENT — A. L. Carpenter, 157 Summer St., having plans prepared by A. H. Bowditch, 44 Bromfield St., Boston, 8 story and basement, 8,000 sq.ft. floor space, brick, plain foundation, Summer and Clifton Sts. $200,000.

Mass., Springfield — HOTEL and THEATRE—Poli Realty Co., 26 Church St., New Haven, Conn., having plans prepared by T. Lamb, 644 8th Ave., New York City, 10 story, 100 x 100 ft. hotel, 95 x 160 ft. theatre, brick, steel, stone and marble, Bway. and Pynchon Sts., here. $1,500,000. Noted Jan. 13.

Mass., Waltham (br. Boston)—BANK—Waltham Natl. Bank having plans prepared by H. E. Davidson & Son, 46 Cornhill, Boston, brick, steel and stone bank building. $150,000 or more.

R. I., Providence—FIREHOUSE—Pub. Building Dept., City Hall, plans fire station, Burnside St. $150,000. T. J. Hill Pierce, City Hall, archt.

N. Y., Far Rockaway—APARTMENT HOTEL—Rosoff Terrace Co., 123-71 Rockaway Beach Blvd., Rockaway Park, having plans prepared by M. Courland, 386 5th Ave., New York City, 5 story and basement, 100 x 100 ft., brick and steel, plain foundation, Beach 24th St. and Rockaway Beach Blvd., here. $150,000.

N. Y., New York—PROFESSIONAL—H. Van Rensselear, 40 East 61st St., having preliminary plans prepared by K. Franzheim, 345 Madison, Ave., 13 story, brick, steel and stone, concrete foundation, 40-44 East 61st St. $400,000.

N. J., Arcola — THEATRE — Bergen Amusement Park Co., Inc., plans 2 story and basement, brick and steel, plain foundation, here. $300,000. Engineer and architect not selected.

N. J., East Orange — APARTMENT — Church Constr. Co., 800 South 13th St., Newark, having plans prepared by W. Lehman, 972 Broad St., Newark, 8 story and basement, brick and steel, plain foundation, Harrison St. near Central Ave., here. $375,000.

N. J., Elizabeth—APARTMENT—Halsberg & Posnock, c/o L. Kasoff, archt., 164 Market St., Newark, having plans prepared 4 story and basement, brick and steel, plain foundation, Jersey Ave. and Berwick St., here. $150,000.

N. J., Elizabeth — DEPARTMENT STORE — Levy Bros., 80 Broad St., plans 10 story and basement, brick and steel, plain foundation, 80-84 Broad St. $500,000. Engineer and architect not selected.

N. J., Hackensack—HALL of RECORDS—Bd. Freeholders Bergen Co., plans 5 story and basement, brick and steel, plain foundation, on 100 x 200 ft. site, Hudson St. $200,000. Engineer and architect not selected.

N. J., Hillside—APARTMENT—P. J. Haggerty, 185 Market St., Newark, plans 6 story and basement, brick and steel, plain foundation, Maple Ave. $200,000. Engineer and architect not selected.

N. J., Jersey City—HOTEL—Owner, c/o J. F. Jackson, archt., 137 East 45th St., New York City, plans brick and steel, plain foundation, here. $150,000.

N. J., Newark—STORE and OFFICE—F. M. Kern, archt., 665 Broad St., takes bids about Sept. 15, general contract 4 story and basement, 40 x 185 ft., brick and steel, plain foundation, 657-9 Broad St., for C. E. Cameron, $500,000. Lining Store, W. W. Oppenheim, Inc., 657 Broad St., lessee. Noted June 16.

N. J., Passaic—HOTEL—Stein Securities Co., Inc., H. Stein, pres., 201 Lexington Ave., having plans prepared by F. Wentworth, 140 Market St., Paterson, 4 story and basement, brick and steel, plain foundation, Main Ave. and Henry St. $200,000. Noted Aug. 4.

N. J., Red Bank—HOTEL—Red Bank Hotel Co., W. H. Smock, pres., plans 9 story hotel, Riverside Ave. $600,000.

N. J., Union City — APARTMENT — J. Venturo, 678 Johnson Pl., West New York, having plans prepared by A. DePaola, 106 18th St., West New York, 5 story and basement, 50 x 100 ft., brick and steel, plain foundation, Palisade Ave. and 13th St. $175,000.

N. J., Westfield—J. FF. Jackson, archt., 137 East 45th St., New York City, soon takes bids 3 story and basement, brick and steel, plain foundation, Ferris Pl. and Clark St., here, for Y. M. C. A., 116 Elm St. $300,000.

Pa., Phila. — APARTMENT — Garden Homes Constr. Co., North Amer. Bldg., plans 4 story and basement, 74 x 185 ft., rein.-con., brick and steel, plain foundation, Lindley and 13th Sts. $400,000. Private plans.

Pa., Phila. — THEATRE—Hodgens & Hill., archts., 130 South 15th St., 1 story, balcony and basement, 108 x 224 ft., rein.-con., brick and steel, plain foundation, 8th and South Cts., for Rexy Theatre Co., c/o architect. Former bids rejected. Noted June 30.

Miss., Jackson — GARAGE — Robinson Bros. Motor Co. having plans prepared by E. J. Hull, archt. and engr., Merchants Natl. Bank Bldg., 2 story and basement, 94 x 152 ft., rein.-con., Amite and McQuade Sts.

Tenn., Chattanooga — GARAGE — Broad Street Co., c/o C. T. Jones, archt., James Bldg., having plans prepared 4 story and basement, 50 x 100 ft., rein.-con. garage. $150,000.

Tenn., Knoxville — THEATRE, STORE and OFFICE — Tennessee Enterprises, Inc. having plans prepared by Graven & Mayger, 180 North Michigan Ave., Chicago, 3 story, brick and terra cotta theatre, store and office building. $600,000.

O., Ashland—COURT HOUSE—Ashland plans election $250,000-$300,000 bonds, court house.

O., Cleveland—APARTMENT—Berkner Realty Co., c/o G. J. Paul, Fidelity Bldg., having preliminary plans prepared by G. Ebeling, 737 Prospect Ave., 12 story and basement, brick, steel and concrete, Euclid Ave. near East 40th St. $1,500,000.

O., East Cleveland (br. Cleveland) — APARTMENT — J. Noft, 13924 Colt Rd., Cleveland, had plans prepared by W. Markowitz, 8902 Kempton Ave., Cleveland, 3 story and basement, 89 x 146 ft., brick, 1520 Holyoke Ave., here. $150,000.

O., Fostoria—BANK and MERCANTILE—Union Natl. Bank, Tiffin, plans 7 story and basement, brick, steel and concrete, Main and Tiffin Sts., here. $500,000.

Mich., Birmingham—CITY HALL—Village, H. E. Lawler, clk., having plans prepared by Burrowes & Eurich, archts. and engrs., 415 Brainard St., Detroit, 2 or 3 story and basement, brick, steel and rein.-con., plain foundation, Woodward Ave. To exceed $150,000.

Mich., Detroit — APARTMENT — Owner, c/o T. C. Hughes, archt., 2615 Joy Rd., having plans prepared 3 story and basement, brick, steel and stone, plain foundation, Northwest Section. $150,000.

Mich., Detroit — OFFICE — Bd. Water Comrs., Dept. Water Supply, 176 East Jefferson Ave., having plans prepared by L. Kamper, Kamper Bldg., Cass Ave., 6 story and basement, 72 x 150 ft., rein.-con., brick and steel, plain foundation, Clinton and Raynor Sts. $1,000,000. Noted Dec. 30.

Mich., Grosse Pointe Farms (mail Grosse Pointe) — HOSPITAL — Mutual Aid Neighborhood Club, 355 Lincoln Rd., had plans prepared by Stevens & Lee, 45 Newberry St., Boston, Mass., 4 story and basement, brick, steel and rein.-con., plain foundation, Grosse Pointe Blvd. $300,000.

Ill., Chicago—HOTEL—Syndicate, c/o Huszagh & Hill, archts., 6 North Michigan Ave., having plans prepared 9 story and basement, rein.-con., brick and terra cotta, Bway. and Sunnyside Ave. $1,000,000.

Ill., Chicago—OFFICE and STORE—A. W. Dickinson, 4040 La Porte Ave., having plans prepared by C. W. Lampe & Co., 155 North Clark St., 5 story and basement, 75 x 75 ft., brick and Bedford stone, Milwaukee Ave. and Irving Park Blvd. $200,000.

Ill., Chicago — OFFICE and STORE — Syndicate, c/o P. B. Maher, archt., 157 East Erie St., having sketches made 24 story and basement, 46 x 100 ft., Michigan Ave. and Ontario St. $1,250,000.

Ill., Chicago—OFFICE and STORE—J. Binga, 3452 South State St., having sketches made by J. Scheitler, 605 North Michigan Ave., 5 story and basement, 50 x 125 ft., rein.-con., brick and stone, 35th and State Sts. $400,000.

Ill., Mattoon—OFFICE—Owner, c/o Berger & Kelley, archts., Lincoln Bldg., Champaign, postponed bids to have been received July 31, 6 story and basement, 60 x 100 ft., rein.-con., brick and stone, here. $170,000. Noted July 14.

Wis., Milwaukee—GARAGE and SALESROOM—J. T. Ellison, 528 Summit Ave., having plans prepared by Rosman & Wierdsma, 490 Bway., 1 story, 375 x 450 ft., steel, brick and artificial stone, Wisconsin Ave.

Kan., Kinsley—COURTHOUSE—Edward Co. having preliminary plans prepared 3 story, rein.-con., brick and stone courthouse. $150,000.

Kan., Rosedale—WARD—University of Kansas, School of Medicine, c/o H. E. Shrock, bus. mgr., takes bids about Aug. 25, 5 story and basement, 47 x 87 ft., rein.-con., brick and stone ward building. $200,000. C. D. Cuthbert State House, Topeka, archt. Noted April 21.

Te., Amarillo—HOSPITAL—Wyatt C. Hedrick, archt., 1st Natl. Bldg., Ft. Worth, soon lets contract 5 story and basement, 100 x 150 ft., rein.-con. and brick, plain foundation, North Polk St., for St. Anthony's Sanatorium. $500,000.

Tex., Brownsville—THEATRE—L. Dent and associates, Dallas Country Club, Dallas, plans 3 story and part basement, 140 x 150 ft. rein.-con. and brick, plain foundation, here. $300,000. Private plans.

Tex., Corpus Christi—HOTEL—Corpus Christi Hotel Co. having plans prepared by Callaway & Nethercot, 11 story, concrete, hotel, $650,000.

Tex., Dallas — MEDICAL — Jefferson & Langs, c/o H. W. Wells, 2519 Oak Lawn, having plans prepared by Flint & Broad, 606 Melba Bldg. 8 story and basement, 125 x 125 ft., 1st floor, and 45 x 110 ft. above, brick, stone and rein.-con. $500,000.

Tex., Marshall—HOSPITAL—Texas & Pacific R.R. Co., E. F. Mitchell, ch. engr., Dallas, having plans prepared by R. P. DeWitt, 1229 Kirby Bldg., Dallas, 2 story and basement, 40 x 186 ft. hospital.

Tex., San Antonio — OFFICE — Smith Bros., c/o J. W. Young, judge, Plaza Hotel, soon takes bids 30 story and basement, rein.-con. and brick, plain foundation, St. Marys and Villita Sts. $2,000,000. A. B. and R. M. Ayres, 626 Bedell Bldg., archts.

Tex., Welasco—HOTEL—P. G. Silber & Co., archts., Bedell Bldg., San Antonio, soon take bids 72 room, concrete tile and stucco, here, for Welasco Hotel Co., c/o Chamber of Commerce. $500,000.

Tex., Wellington—COURTHOUSE—R. H. Templeton, judge Collingsworth Co. plans 3 story, courthouse, $180,000. Engineer and architect not announced.

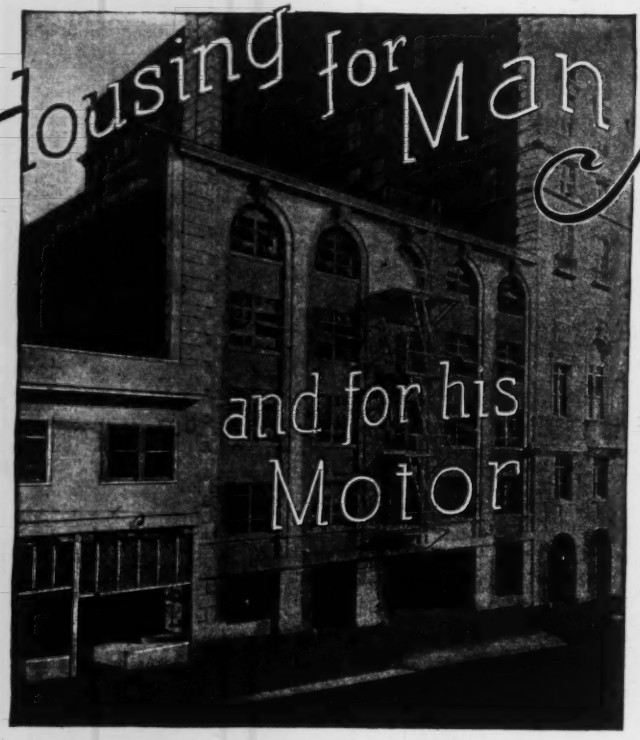
Tex., Wichita Falls — OFFICE — W. Wyatt, Interest, plans 8 story concrete office. $400,000.

Okla., Chickasha—COURT HOUSE—Grady Co. having preliminary plans prepared, 3 story and basement, rein.-con. and brick, plain foundation, Main St. $175,000. A. Little, co. clk. Engineer and architect not selected.

Okla., Kingfisher—COURT HOUSE—Kingfisher Co. having preliminary plans prepared 3 story and basement, brick, Main St. $175,000. A. Steele, co. engr. Architect not selected.

Constr. News page 99

AMERICA NEEDS MORE GARAGES IN HER CITIES



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Buildings—Commercial (Continued)

Okla., Wagoner — COURT HOUSE — Wagoner Co. having preliminary plans prepared 3 story and basement court house, Cherokee St. $175,000. A. Harrill, co. clk. Engineer and architect not selected.

Colo., Pueblo — APARTMENT — A. M. Nassif, 3rd St. and Santa Fe Ave., having plans prepared by J. M. Gile, Masonic Bldg., 3 story, 75 x 150 ft., rein.-con. and timber main unit, plain foundation. Contract for 1st 2 units, each 2 story and basement, to W. B. Rilinger, 1709 Berkeley Ave., $35,000. Total $150,000.

Calif., Culver City—APARTMENT—H. K. Boone, archt., Day Bldg., preparing plans, 4 story and basement, brick apartment. $150,000. Owner's name withheld.

Calif., Culver City—STAGE—Cecil De Mille Studios, plans to rebuild stage, Washington Blvd., recently destroyed by fire. $150,000. Austin Co., 777 East Washington St., Los Angeles, archt.

Calif., Los Angeles—APARTMENT—L. B. Mayer & H. Rapf, c/o Goldwyn-Mayer Picture Corp., having preliminary plans prepared by Walker & Eisen, Western Pacific Bldg., 13 story and basement, 135 x 185 ft., rein.-con., Wilshire and Irolo Sts. $1,500,000.

Calif., Los Angeles — DEPARTMENT STORE—Bway. Dept. Store, Bway, having preliminary plans prepared by Parkinson & Parkinson, Title Insurance Bldg., 11 story and basement, rein.-con. and steel addition. $750,000.

Calif., Los Angeles—HOTEL and APARTMENT—R. A. Hill, archt., 301 Chester Williams Bldg., preparing preliminary plans 8 story and basement 125 x 150 ft., rein.-con., terra cotta, stone and brick, 1025 South Westlake Ave. $1,000,000. Owner's name withheld.

Calif., Long Beach—HOTEL—L. A. Baker, having plans prepared by Morgan, Wells & Clements, et al., Van Nuys Bldg., Los Angeles, class "A" hotel. $1,000,000 or more.

Calif., Los Angeles—HOTEL—C. L. Hill, archt., 2690 North Beachwood Dr., preparing plans 2 and 3 story, 270 x 300 ft., brick and tile, Roosevelt Highway at Dana Point. $350,000 . Owner's name withheld.

Calif., Los Angeles—OFFICE and STORE—Professional Building Co., 1052 West 6th St., having preliminary plans prepared, 8 story and basement, Central Ave. $250,000 or more.

Calif., Los Angeles — STORE, OFFICE and WAREHOUSE—F. E. Barton, archt., Crocker Bldg., San Francisco, soon takes bids 8 story and basement, 100 x 100 ft., rein.-con., Pico Blvd., for Bekins Fireproof Storage Co., 1335 South Figueroa St., here. $250,000. P. E. Jeffers, 810 West 6th St., engr. Noted July 23.

Calif., Palo Alto—OFFICE and POST-OFFICE—Hare, Brewster & Clark, 130 University Ave., having plans prepared by B. M. Clark, 310 University Ave., 4 story and basement, concrete, Ramona St., $250,000.

Calif., Pasadena—APARTMENT—R. A. MacDonald, Pacific South West Bank Bldg., having preliminary plans prepared by R. H. Ainsworth, 1800 Loma Vista, brick, California St. $150,000.

Calif., Sacramento — LODGE — Eastern Star Lodge plans 3 story brick, and tile, North K St. $150,000. Engineer and architect not selected.

Calif., San Francisco—CLUB—Olympic Club, Post and Mason Sts., having revised preliminary plans prepared by J. Baur, Bakewell & Brown, 251 Kearny St., 17 story and basement, brick and steel addition. $2,000,000. Noted Apr. 15.

Ont., Toronto — APARTMENT — R. C. Bustard, 31 Heath St. W., had plans prepared by H. G. Duerr, Lumsden Bldg., 3 story and basement, 102 x 167 ft., brick, steel, cut stone, tile and rein.-con., plain foundation, Huron St. and Lowther Ave. $300,000.

Ont., Toronto—APARTMENT HOTEL—R. W. C. Godson, 14 King St. E., had plans prepared by E. V. Stokes, 81 Victoria St., 15 story and basement, brick, steel and rein.-con., plain foundation, Bloor and St. George Sts. $2,000,000.

Ont., Toronto — OFFICES — Star Publishing Co., 18 King St. W., having plans prepared by Chapman & Oxley, Northern Ontario Bldg., 10 or 12 story and basement, brick, steel and rein-con., plain foundation, King St. W. $800,000. Noted June 23.

Bids Desired

Mass., Brookline (br. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Greenfield—STORE and OFFICE—H. Cohn, Madison Circle, taking bids 2 story and basement, 75 x 110 ft., brick, plain foundation, Main St. $150,000.

F. D. Avery, 278 Main St., Springfield, archt.

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., Willard—HOSPITAL—Sept. 14, by Commissioner Mental Hygiene, Dept. Mental Hygiene, Albany, alteration work, incl. exit facilities and fire stops, etc. at Willard State Hospital, here; adv. E. N.-R. Aug. 25.

N. Y., Yonkers—WAREHOUSE—Feuers Warehouse & Trucking Co., 63 Dock St., New York City, taking bids general contract 4 story (ultimately 7 story), 92 x 100 ft., rein.-con., concrete foundation, Ludlow and Bridge Sts., here. $150,000. Lewis & Leonard, 51 East 42nd St., New York City, archts. Noted June 9.

N. J., Elizabeth—BANK—Oakley & Son, archts., 1259 Clinton Pl., taking bids general contract 1 story and basement, approximately 75 x 100 ft., brick and steel, plain foundation, 3rd and East Jersey Sts., for Downtown Trust Co., 113 Broad St. $150,000. Noted Aug. 4.

N. J., Glassboro—DORMITORIES—Sept. 7, by Guilbert & Betelle, archts., Chamber of Commerce, Newark, 3 story and basement, 45 x 167 ft., brick and steel, plain foundation, here, for State Normal School.

N. J., Hackensack — APARTMENT — Prospect Ave. Realty Co., Inc., 15 Exchange Pl., Jersey City, taking sub-bids 5 story and basement, 150 x 150 ft., brick and steel, plain foundation, Prospect Ave. and Passaic St. $500,000. Flagg & Stades, 665 Newark Ave., Jersey City, archts. Noted July 21.

N. J., Hoboken—DEPARTMENT STORE—H. Holmes, archt., c/o S. S. Kresge Co. (owner), Kresge Bldg., Detroit, Mich., taking bids 3 story and basement, 50 x 100 ft., brick and steel, plain foundation, 226-228 Washington St., here. $150,000. Noted May 28.

N. J., Kearny — APARTMENTS — See "Contracts Awarded."

N. J., Montclair—STORE, LODGE and DANCE HALL—W. Grigsby, 22 Orange Rd., taking new bids general contract 3 story and basement, 50 x 100 ft., brick and steel, plain foundation, Bloomfield Ave. $150,000. Former bids rejected. D. S. Van Antwerp, 14 South Park St., archts. Noted July 21.

N. J., North Caldwell (mail Caldwell)—CELL HOUSE and PENITENTIARY—Bd. Freeholders Essex Co., Court House, Newark, taking bids altering and constructing 3 story and basement, 60 x 250 ft., rein.-con., brick and steel, plain foundation, here. $300,000. C. Williard Wands, 275 Bloomfield Ave., Caldwell, archt.

N. J., Palisades Park—APARTMENT—See "Contracts Awarded."

N. J., Paterson—SHOW ROOM and SERVICE STATION—A. E. Sleight, archt., Romaine Bldg., taking bids 1 story, 100 x 300 ft., brick and rein.-con. plain foundation, Market and East 36th Sts., for J. A. McCrane Motors Co., 638 Market St. $150,000. Noted Aug. 11.

N. J., Totowa (mail Paterson)—DORMITORIES—Aug. 29 (extended date), by C. N. Leathem, Jr., state archt., State Bldg., Trenton, 4 dormitories, hospital and employees buildings, etc. at training school for Feeble Minded Females, here. $450,000. Noted July 28.

Ga., Atlanta — MASONIC TEMPLE — Sept. 20, by W. C. Spiker & Co., engrs., Forsyth Bldg., 4 story, 193 x 363 ft. temple, Kimball and Peachtree Sts., for Yaarab Temple, A.A.O., N.M.S., 30 West Harris St. $1,000,000. M. Alger & Alger, Walton Bldg., archts.

O., Cincinnati—OFFICE—Sept. 7, by J. G. Steinkamp & Bro., 1212 Mercantile Library, 12 story and basement, 82½ x 100 ft., rein.-con. and brick, plain foundation, Central Parkway, for Amer. Druggists Fire Insurance Co., 1004 Mercantile Library. $600,000.

O., Toledo—HOSPITAL—Schmidt, Garden & Erickson, archts., 104 South Michigan Ave., taking bids 9 story, 94 x 250 ft. hospital, 6 story, 63 x 161 ft. nurses' home, and 4 story, 93 x 176 ft. power house, etc., Ottawa and Jermain Parks, Kenwood Ave. and North Grove Blvd.

Mich., Detroit—WAREHOUSE—A. Kahn, archt., 1000 Marquette Bldg., taking bids 3 story, 130 x 320 ft., rein.-con., plain foundation, East Grand Blvd., for Packard Motor Car Co., East Grand Blvd.

Mich., Highland Park (br. Detroit)—OFFICE and STORE—A. Kahn, owner and archt., 1000 Marquette Bldg., Detroit, taking bids and opens same about Aug. 27, 6 story and basement, 87 x 120 ft., rein.-con. and brick, plain foundation, Glendale St. and Woodward Ave., here $200,000. Noted Feb. 3.

Ill., Chicago—APARTMENT—Huszagh & Hill, archts., 6 North Michigan Ave., taking bids 17 story, rein.-con. and brick, on 75 x 240 ft. site, Sheridan Rd. near Ardmore St., for E. Reid, 4753 Bway. $1,000,000.

Wis., Milwaukee—PUBLIC SAFETY—Sept. 8, by Dept. Pub. Wks., R. E. Stoelting, comr., 6 story and basement, 135 x 235 ft., brick and steel, 8th, 9th, State and Cedar Sts. $1,200,000. A. R. Ross, 1 Park Ave., New York, N. Y., archt. M. Cutler, 1019-36th St., Milwaukee, engr.

Mo., Kansas City — APARTMENT HOTEL—See "Contracts Awarded."

Tex., Port Arthur—MASONIC TEMPLE—Sept. 8, by A. F. & A. M. Lodge, c/o C. Stevenson chn. building com., 3 story and roof garden, 100 x 110 ft., rein.-con. and brick, plain foundation. $150,000. W. B. Ittner, 911 Locust St., St. Louis, Mo., archt.

Calif., Berkeley—MEMORIAL—Sept. 12, by G. Gross, clk. Alameda Co., 2 story and basement, concrete, terra cotta and artificial stone, Center St. $150,000. H. H. Meyers, Kohl Bldg., San Francisco, archt. Noted Aug. 11.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Fresno—THEATRE, STORE and OFFICE—B. M. Pretica, archt., Pantages Theatre Bldg., Los Angeles, taking bids steel and rein.-con., Fulton and Tuolumne Sts., here, for A. Pantages, Pantages Theatre Bldg., San Francisco. $150,000 or more. Noted June 10.

Calif., Los Angeles—BANK and OFFICE—Bennett & Haskell, archts., Security Bldg., taking bids 9 story and basement, 200 x 230 ft., rein.-con. and steel, Madison Ave. and Colorado St., for First Trust & Saving Bank, 85 East Colorado St., and First Natl. Bank, 305 East Colorado St., Pasadena. $1,000,000.

Calif., Norwalk—HOSPITAL—Sept. 13, by G. B. McDougall, state archt., Forum Bldg., Sacramento, two 2 story, rein.-con. hospital, here, for State Building Comn., Sacramento. $165,000.

Calif., San Clemente (mail Tiburn)—CLUB—V. Westbrook, archt., San Clemente, taking bids 1 story, 27 x 158 ft., club, incl. 45 x 105 ft. swimming tank, filtration system, etc., for O. Hanson, Sun Finance Bldg., Los Angeles. Noted Aug. 4.

Calif., Ventura — THEATRE and OFFICE—L. A. Smith, archt., Film Exch. Bldg., Los Angeles, taking bids 3 story, rein.-con., Main and Chesntut Sts., here, for Amer. Amusement Co., c/o architect. Noted July 14.

Ont., Toronto — APARTMENT — J. T. Moore, archt., 2461 Queen St. E., taking bids 3 story and basement, brick, steel and rein.-con., plain foundation, Yonge St. and Soudan Ave., for M. Fenwick, 2155 Yonge St. $150,000.

Contracts Awarded

Mass., Brookline (br. Boston)—APARTMENT—H. H. Johnson, 148 Spring St., Medford, will build 4 story and basement, brick and stone, plain foundation, 588-592 Waashington St. $150,000. Work will be done by separate contracts. H. W. Gore, 31 Milk St., Boston, archt.

Mass., Cambridge (br. Boston) — INFIRMARY—Mass. Institute of Technology, H. J. Carlston, chn. building com., 4 story and basement, brick, plain foundation, to J. Rugo, 80 Boylston St., Boston. Noted July 21.

Conn., East Haven (br. New Haven)—TOWN HALL—Town, 2 story, 106 x 126 ft., brick, steel, stone and concrete, to H. Wales Lines Co., State St., Meriden, approximately $150,000. Noted July 28.

R. I., East Providence (br. Providence)—STORE and OFFICE—R. Tortolani, 20 Bainbridge Ave., Providence, 4 story and basement, brick and stone, plain foundation, Waterman St. and Taunton Ave., here, to S. Montanaro, 174 4th St. Archts. est. $150,000. Noted Aug. 4.

Mass., Fall River — THEATRE and STORE—L. E. Savard, 217 Granite Rd., 1 and 2 story and basement, brick and steel, plain foundation, Pleasant St., to L. Bolduc, 579 Middle St., $150,000. Noted July 6.

Mass., Winchester — HOSPITAL — Winchester Hospital, B. L. Norton, supt., 41 Highland Ave., altering and constructing 3 story and basement, brick and steel addition, plain foundation, to Arlington Constr. Co., 313 Bway., Arlington. Noted May 12.

Conn., Middletown—Y. M. C. A., E. S. Hubbell, chn. building comn., 2 story and basement, 115 x 145 ft., rein.-con., brick and steel, incl. gymnasium and swimming pool, Union and Crescent Sts., to D. O'Brien & Sons, 118 Asylum St., Hartford, $301,976. Noted July 7.

N. Y., Flushing — THEATRE — B. F. Keith Theatres, Inc., 1564 Bway., New York City, general contract 158 x 160 ft. irregular shaped, brick and steel, concrete foundation, Northern Blvd. and Farrington St., to M. Shapiro & Sons, Inc., 1560 Bway., New York City. Archts. est. $2,000,000. Noted Apr. 8.

Constr. News page 99a

Steel Insures Strength and Security

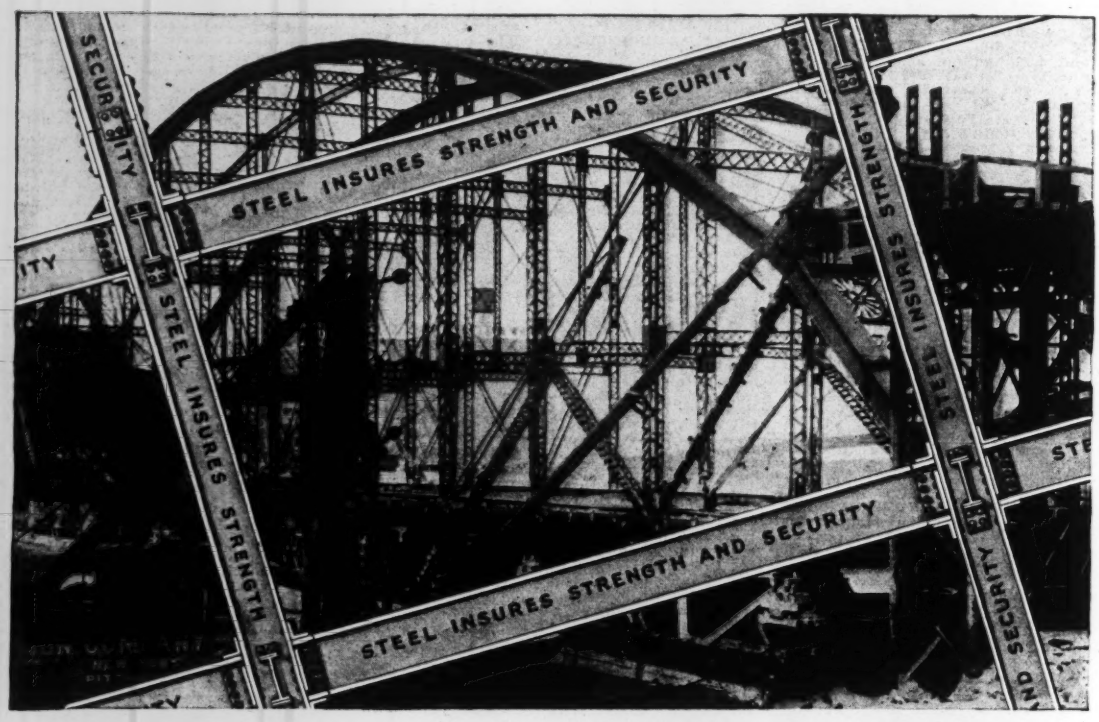
STEEL INSURES STRENGTH AND SECURITY
STEEL INSURES STRENGTH
STEEL INSURES STRENGTH AND SECURITY
STEEL INSURES STRENGTH

Photo courtesy "Construction Methods"

Removal of the south span of the Sixth Street Bridge, Pittsburgh, Pa. The span has been lowered and placed on pontoons ready for floating down-stream. The removal of this 440-foot truss span intact is an amazing tribute to the flexibility of structural steel.

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Buildings—Commercial (Continued)

N. Y., New York—APARTMENT—Minhall Building Corp., c/o Franklin, Bates & Reindsmann, archts., 2526 Webster Ave., will build 6 story, 52 x 102 ft., brick and steel, plain foundation, Intervale Ave. and 167th St. $180,000. Work will be done by separate contracts.

N. Y., New York—APARTMENT—Sors Constr. Corp., c/o R. C. P. Boehler, archt., 116 West 39th St., will build 6 story, 86 x 122 ft., brick and steel, plain foundation, 169th St. near Shakespeare Ave. $200,000. Work will be done by separate contracts.

N. Y., New York — APPRAISERS STORES—L. Adler, 38 West 32nd St., 12 story and basement, 200 x 400 ft., concrete, steel, brick and stone, concrete pile foundation, Hudson, Varick, West Houston and King Sts., to Shroder & Koppel, Inc., 420 Lexington Ave. Archts. est. $6,000,000. U. S. Government, lessee.

N. Y., New York — GARAGE — Ortcar Realty Co., 227 West 51st St., 6 story, 100 x 200 ft., rein.-con. garage, concrete pile foundation, 211 West 61st St., to Turner Constr. Co., 420 Lexington Ave. Archts. est. $300,000.

N. J., Bogota (br. Hackensack) — THEATRE and STORE — Queen Ann Theatre Corp., c/o W. E. Lehman, archt., 972 Broad St., Newark, general contract 21 story and basement, brick and steel, plain foundation, Queen Ann Rd. and Cypress Ave., here, to Oschwald Costr. Co., 854 Clinton Ave., Newark. Archts. est. $500,000. Former contract rescinded. Noted Aug. 4.

N. J., Elizabeth—HOTEL and STORE—Elizabeth Chamber of Commerce Hotel Co., 215 Broad St., general contract 9 story and basement, 67 x 107 x 215 ft., brick and steel, plain foundation, North Broad St., to Deakman Wells Co., 921 Bergen Ave., Jersey City. Archts. est. $1,000,000.

N. J., Elizabeth—J. F. Jackson, archt., 137 East 45th St., New York City, general contract 3 story, brick and steel, Madison St., to W. L. Crow Constr. Co., 101 Park Ave., New York City, for Y. M. C. A., 1164 East Jersey St. Archts. est. $350,000. Noted July 28.

N. J., Haddonfield—TOWN HALL—Boro Comn., general contract 2 story, limestone, to G. W. Shaner & Sons, Palmyra, $134,695.

N. J., Iselin—THEATRE and STORE—E. Wierzbicki, archt., 175 Smith St., Perth Amboy, general contract 2 story and basement, 60 x 105 ft., brick and steel, plain foundation, here, to S. Raciti, 64 Baldwin St., New Brunswick. Archts. est. $150,000. Noted May 28.

N. J., Kearny—APARTMENTS—K. F. Sherwood, 808 Chestnut Ave., Arlington, will build three 3 story and basement, 50 x 80 ft., brick and steel, plain foundations, 6-14 Woodland Ave. $150,000. Work will be done by separate contracts. Kelly & Cowan, 921 Bergen Ave., Jersey City, archts. Noted Aug. 11.

N. J., Palisades Park—APARTMENT—A. Pumo Co., 765 Hudson Ave., West New York, will build 5 story and basement, brick and steel, plain foundation, Columbia Ave. and Edgewood Lane. $150,000. Work will be done by separate contracts. G. W. Dexter, Ft. Lee Trust Bldg., Ft. Lee, archt. Noted Aug. 11.

N. J., West New York (Ind. br. Weehawken) — SCHOOL — Bd. Educ., Town Hall, 16th St., general contract 1 story, 175 x 230 ft., brick and steel, Park Ave. between 11th and 12th Sts., to Auf der Heide Constr. Co., 443 16th St. Archts. est. $150,000. Noted July 21.

Pa., Lancaster—PASSENGER STATION—Pennsylvania R.R. Co., T. J. Skillman, ch. engr., Broad St. Sta., Phila., 2 story and basement, 113 x 163 ft., rein.-con., brick, steel, limestone and granite, plain foundation, McGovern Ave. and Christian St., here, to D. S. Warfield, Lancaster. Noted July 14.

Pa., Phila.—LOFT—Manufacturers Exchange Realty Co., c/o W. Goldstein, 1415 Locust St., 16 story and basement, 96 x 161 ft., rein.-con., brick and architectural terra cotta, plain foundation, 232-48 North 11th St., to Nelson-Pedley Co., Corn Exch. Bldg. Archts. est. $1,500,000. Noted July 14.

Va., Newport News—HOTEL—Peebles & Ferguson, archts., Norfolk, 7 story and basement, 50 x 82 ft., rein.-con., brick, steel, stone and terra cotta addition, to Hotel Warwick, plain foundation, here, to Virginia Eng. Co., for Hotel Warwick Co., c/o architects. $300,000. Noted May 19.

La., New Orleans—TEMPLE—E. Weil, Inc., archts., Whitney Central Bldg., rein.-con. and marble, to C. Gilbert, Bolter Bldg., for Temple Sinai Congregation, St. Charles St. $219,000.

O., Columbus—STORAGE GARAGE—Col. Merchants Garage Co., 98 North Front St., W. T. Thompson, pres., 6 story and basement, 125 x 187½ ft., brick, steel and rein.-con., North Front St., to Forman & Putnam, Marietta, $335,000.

Ind., Hammond—APARTMENT—A. C. Berry, Ruff Bldg., 3 story and basement, brick and steel, Ruth St. to Gorman Construction Co., 38 South Dearborn St., Chicago, Ill. $480,000.

Mich., Detroit—FURNITURE WAREHOUSE—Leonard Storage Co., 1800 East Jefferson Ave., 9 story, 40 x 100 ft., brick and rein.-con., plain foundation, Grand River and Plymouth Rd., to C. S. Berry Co., 2631 Woodward Ave. Archts. est. $150,000.

Mich., Detroit—GARAGE and OFFICE—First Natl. Co., 1st Natl. Bank, 19 story and basement, 129 x 143 x 173 ft., brick, steel and rein.-con., plain foundation, Congress St., to Otto Misch Co., 159 East Columbia St.

Ill., Chicago—APARTMENT—Huszagh & Hill, archts., 6 North Michigan Ave., masonry and carpentry contract 5 story, 50 x 150 ft., brick, 6322 Kenmore Ave., to H. B. Ryan Co., 500 North Dearborn St., for D. Vater, 6322 Kenmore Ave. Archts. est. $200,000. Noted Apr. 7.

Ill., Chicago — APARTMENT — R. De Goyler & Co., archts., 307 North Michigan Ave., masonry and concrete contract 13 story and basement, 100 x 200 ft. apartment, 7321 South Shore Dr., to Linn Constr. Co., 6400 South State St., and plumbing, to E. B. Kaiser, 625 Webster Ave., for W. C. Bannerman & Co., 77 West Washington St. Archts. est. $1,000,000. Noted June 30.

Ill., Chester—HOSPITAL—Chester State Hospital, c/o Dept. Purchase & Constr., Springfield, L. Small, dir., general contract 3 story, rein.-con. steel and stone, to J. Robinson, Anna, $160,000. Noted May 19.

Ill., East St. Louis—Y. M. C. A. Assn., 317 Missouri Ave., 3 story and basement, 150 x 225 ft., rein.-con., brick and terra cotta, 9th St. and Ohio Ave., to F. N. Wilson, Granite City. Archts. est. $200,000. Noted July 14.

Mo., Kansas City — APARTMENT HOTEL — Fisher Building Co., Commerce Bldg., will build 10 story and basement, 80 x 115 ft., rein.-con. and brick, Armour St. and Gillham Rd., by day labor. $150,000. N. E. Peters, Orear Leslie Bldg., archt.

Mo., St. Louis — APARTMENT and STORE — S. W. Perummle, 3650 South Grand Blvd., 3 story and basement, 56 x 140 ft., rein.-con., brick and terra cotta, Grand Blvd. and Tholozan St., to Harrison-Kopman Constr. Co., 592 Arcade Bldg.

Mo., St. Louis — CIVIL COURTS — Bd. Pub. Serv., 208 City Hall, general contract (except foundation and steel, etc.), 24 story and basement, 135 x 162 ft., concrete, stone, steel and terra cotta, 11th St. between Chestnut and Market Sts., to Seldon-Breck Constr. Co., Fullerton Bldg., $2,656,203. Noted July 21.

Ark., Lonoke—COURTHOUSE—Lonoke Co., 3 story, 62 x 215 ft., rein.-con., brick and stone, to Herman & M'Cain Constr. Co., Reigler Bldg., Little Rock, $199,500. Noted Aug. 4.

Okla., Enid—THEATRE—Griffith Amusement Co., 306 West Reno St., 2 story and basement, 75 x 140 ft., rein.-con. and brick, plain foundation, 3rd St., to G. M. Buxton, Enid, $150,000.

Okla., Wilburton — DORMITORY — State Board of Affairs, Capitol Bldg., Oklahoma City, 3 story and basement, 88 x 172 ft., rein.-con. and brick, plain foundation, on campus, here, to W. L. Scott, Sulphur, for Oklahoma School of Mines. $170,200. Archts. est. $190,000.

Calif., Fresno—LODGE—B. P. O. E., Fresno Lodge 439, 3 story and basement, rein.-con., Tulare and L Sts., to E. H. Mellencamp, 723 Princeton St., approximately $2,235,000. Noted May 26.

Calif., Hollywood—CLUB—P. R. Williams, archt., 3839 Wilshire Blvd., Los Angeles, 4 story, 110 x 150 ft., rein.-con. addition. Selma and Hudson Aves., here, to Clinton Constr. Co., Stock Exch. Bldg., Los Angeles, for Y.M.C.A. $168,550. Noted July 21.

Calif., Los Angeles — APARTMENT — B. M. Edelman, 403 Wilshire Arts Bldg., will build 5 story and basement, brick, New Hampshire Blvd., by day labor. $175,000.

Calif., Los Angeles — APARTMENT — Lazar & Klitnick, 3817 West 6th St., will build 4 story and basement, 60 x 150 ft., brick, South Wilton Pl., by day labor. $150,000.

Calif., Los Angeles—APARTMENT—A. J. Kane, 5505 Santa Monica Blvd., will build 4 story and basement, 50 x 160 ft., brick, Sierra Vista Ave., by day labor and sub-contracts. $150,000.

Calif., Los Angeles—APARTMENTS—Lolita Holding Corp., two 4 story and basement, one 65 x 125 ft., Van Ness and Bronson Aves., and other 68 x 125 ft., Franklin and Van Ness Aves., both brick, to Shave Constr. Co., Subway Terminal Bldg., $165,000 and $160,000 respectively.

Calif., Los Angeles — APARTMENT HOTEL—W. J. Wright, 3191 West 7th St., 5 story and basement, 127 x 185 ft., brick, North Wilcox Ave., to S. F. Bard Co., Chamber of Commerce Bldg., approximately $375,000.

Calif., Los Angeles—APARTMENT—Lolita Holding Co., 875 Subway Terminal Bldg., 4 story and basement, 68 x 123 ft., brick, Franklin and Van Nuys Aves., to S. H. Shave Constr. Co., 875 Subway Terminal Bldg., $160,000.

Calif., Los Angeles — APARTMENT — Lolita Holding Co., 875 Subway Terminal Bldg., 10 story, 60 x 105 ft., rein.-con., and timber, Franklin and Western Aves., to Stanley H. Shave Constr. Co., 875 Subway Terminal Bldg., $450,000. Noted Aug. 11.

Calif., Los Angeles—BANK, STORE and OFFICE—Wilson Land Co., J. Boylson, pres., Wilson Bldg., 2 story and basement, 120 x 149 ft., rein.-con. 1st and Spring Sts., to Scofield Eng. & Constr. Co., 1100 Pacific Finance Bldg., $200,000.

Calif., Los Angeles—STUDIO—Mack Sennett Co., 1712 Glendale Blvd., 2 story, 100 x 125 ft., rein.-con and steel administration building, dressing room, power plant, etc., Ventura Blvd. near Laurel Canyon, to Austin Co., of Calif., 777 East Washington St., $400,000. Noted July 14.

Calif., Oakland—APARTMENT—Bercovich and associates, c/o H. C. Baumann, archt., 251 Kearny St., San Francisco, 16 story and basement, concrete, Grand Ave., to Thebo, Starr & Anderton, Sharon Bldg., San Francisco, approximately $1,000,000.

Calif., San Francisco—APARTMENT—G. E. and G. B. Dabovach, Mills Bldg., 4 story and basement, concrete, Eddy and Laguna Sts., to C. L. Wold Co., 185 Stevenson St., $175,000.

Calif., San Francisco—APARTMENT—Lincoln Community Apartments, Inc., c/o G. E. Ralph, archt., 110 Sutter St., 6 story and basement, rein.-con. and steel, Geary and 23rd Aves., to G. P. W. Jensen, 320 Market St., approximately $200,000.

Calif., San Francisco—APARTMENT—J. Helbing, 916 Van Ness Ave., 6 story and basement, concrete and steel, Eddy St. and Van Ness Ave., to Helbing Co., 916 Van Ness Ave., $175,000.

Calif., San Francisco—AMUSEMENT CONCESSION—Arena De La Playa, 228 Montgomery St., steel and concrete, Cabrillo St. and La Playa St., to C. Cuff, 1313 Central Bank Bldg., Oakland, approximately $185,500.

Calif., San Jose—OFFICE and BANK—1st Natl. Bank, 9 story and basement, concrete and steel, 1st and Santa Clara Sts., to K.K E. Parker, 135 South Park St., San Francisco, $251,000.

Calif., Santa Monica — HOSPITAL — Santa Monica Hospital, 3 story and basement, 40 x 140 ft. hospital, 16th St. and Arizona Ave., to L. J. Bristow Co., 16th St. and Colorado Ave., $110,000. This corrects report in Aug. 11 issue.

Ont., Toronto—GARAGE—Bay & Adelaide Garage Ltd., c/o C. Dolphin, archt., 10 Leader Lane, general contract 6 story, rein.-con., brick and steel, plain foundation to Carswell Constr. Co., C. P. R. Bldg. Archts. est. $500,000.

Ont., Toronto—OFFICE—Robins Ltd., Natl. Bldg., general contract 2 story and basement, 62 x 160 ft., concrete, brick, steel and cut stone, plain foundation, Bloor and Bay Sts., to M. De Jonckheere, 72 Ostend Ave. Archts. est. $150,000. Noted June 2.

Ont., Toronto—OFFICE—Natl. Trust Co., 22 King St. E., general contract 6 story and basement, 80 x 100 ft., brick, steel, cut stone, tile and rein.-con. addition, plain foundation, to Carswell Constr. Co., C. P. R. Bldg., King St. E.; steel to Dominion Bridge Co., Reford Bldg.; plumbing, heating, and ventilating, to R. Long & Son, 243 Church St. Archts. est. $250,000.

Ont., Toronto—OFFICE—H. Falk, 23 Woodside Ave., general contract 12 story and basement, brick, steel, cut stone and tile, plain foundation. Richmond St. W., to J. V. Gray Const. Co., Northern Ontario Bldg. Archts. est. $400,000. Noted June 30.

B. C., Vancouver—APARTMENT—Bell-Irving, Creery & Co., Ltd., 989 Hastings St. W., 3 story and basement, 40 x 235 ft., concrete and timber, plain foundation, Pacific and Lewis Sts., to Hodgson, King & Marble, 626 Pender St. W., $150,000.

Que., Montreal—THEATRE—F. Tabaah, 209 Notre Dame St., E., 80 x 100 ft., stone, theatre, Sherbrooke St., to H. and A. Dufresne, Montreal. $300,000. Confederation Amusement Co., lessee.

Constr. News page 99b

Buildings—Industrial

Proposed Work

Mass., Boston—SERVICE and REPAIR GARAGE—Owner, c/o A. J. Carpenter, archt., Moss Hill Rd., Jamaica Plain, having plans prepared 1 story, rein.-con., plain foundation, Willow St. $40,000.

Mass., Everett—LAUNDRY and GARAGE—Glendale Laundry, Inc., 740 Bway., soon takes bids 2 story, 120 x 150 ft., rein.-con. and brick concrete foundation, Bway. Desmond & Lord, 1 Beacon St., Boston, archts.

Mass., North Attleboro—COOPERAGE—Raymond Cooperage Co., Smithfield Ave., Pawtucket, R. I., plans manufacturing building, Bway., here. $40,000 or more. Engineer and architect not selected.

Mass., South Braintree (br. Boston)—FACTORY—Braintree Shoe Co., Union St., plans 2 story timber addition. $40,000. Engineer and architect not selected.

Mass., Winchester—REPAIR and SERVICE GARAGE—W. R. Marshall, 19 Ridgefield Rd., plans 1 story, 90 x 150 ft., brick and steel, plain foundation, 36 Church St. $45,000. Private plans.

Conn., Waterbury — FACTORY — Amer. Fastener Co., 54 Maple St., having plans prepared by C. J. Bailey, 63 Bank St., 5 story, brick addition.

N. J., Newark—PLANT—C. B. Comstock, archt., 110 West 40th St., New York City, taking bids general contract 2 story, 65 x 90 ft., rein.-con., brick and steel, plain foundation, Bergen St., here, for General Baking Co., 420 Lexington Ave., New York City. $40,000.

N. J., North Bergen (Ind. br. Weehawken)—SILK FACTORY—W. Messner Silk Co., 223 Hackensack Plank Rd., Weehawken, having plans prepared 2 story and basement, brick and steel, plain foundation, $40,000. Private plans.

N. J., Perth Amboy — AIRPLANE FACTORY — Heff Airplanes, Inc., I. R. Crouse, treas., 231 Walter St., plans brick and steel, plain foundation, Pardee Tract. $50,000. Engineer and architect not selected.

Pa., Pittsburgh — PAINT FACTORY — Standard Plate Glass Co., 1st Natl. Bank Bldg., having plans prepared by Hunting, Davis & Dunnells, Century Bldg., 4 story and basement, 40 x 153 ft., rein.-con. and steel, Galveston Ave. $150,000.

Pa., Pittsburgh—BRASS PLANT—Chaplin Fulton Mfg. Co., 28 Penn Ave., having plans prepared by B. H. Prack, Martin Bldg., 3 story and basement, 32 x 100 ft., brick, steel and concrete addition, Penn Ave. $100,000.

Tenn., Nashville—FURNITURE FACTORY—Lamb & Co., 110 North 1st St., I. B. Lamb, pres., plans rein.-con., Duncan St. $100,000.

Mich., Harbor Beach—STARCH MILL—Huron Milling Co. having plans prepared 3 story, 100 x 220 ft. starch mill, rein.-con. and brick, plain foundation. $180,000. Private plans.

Ia., Sheldon — LIGHT and POWER PLANT—Western States Pub. Utilities Co., 521 Terminal Bldg., Lincoln, Neb., plans rein.-con. and brick power plant, incl. two 500 hp. Diesel oil engines, generators, etc., here. $250,000. Election Aug. 25, franchise for same. Private plans.

Tex., Balmorhea — ICE and LIGHT PLANTS—Borderland Utilities Co. having preliminary plans and surveys, made, etc. 25 to 30 ton ice plant, $35,000, and modern light plant, $30,000. Private plans.

Tex., Black Jack (mail Troup)—COTTON GIN PLANT—M. B. Smith & W. A. Shaw, Troup, having plans prepared cotton gin, brick and concrete, here. $40,000. Private plans.

Tex., Galveston—POWER PLANT—University of Texas, Austin, having plans prepared by R. L. White, c/o owner, power plant at John Sealy Hospital, here. $85,000.

Tex., Lubbock — CREAMERY — Swift & Co., 33 South Clark St., Chicago, Ill., had plans prepared modern creamery plant, 1,500,000 lb. butter annually. $100,000. Private plans.

Tex., San Angelo — REFINERY — San Angelo Refining Co., c/o R. P. Himes, vice pres., having preliminary plans prepared refinery. $100,000. Private plans.

Tex., San Antonio—CREAMERY—R. W. Alford, c/o Thorain Apts., soon lets contract 2 story, rein.-con., brick and hollow tile creamery. $60,000 incl. equipment. Phelps & DeWees, 718 Gunter Bldg., engrs.

Tex., Willis—COTTON GIN PLANT—Planters Gin Co., purchased site and making plans 8 stand, 80 saw capacity, either crude oil or electrically operated engines, cotton gin plant. $40,000. Private plans.

Okla., Mooreland — GAS COMPRESSOR STATION—Empire Pipe Line Co., Bartlesville, made plans natural gas compressor station, incl. three 1,000 hp. Diesel engine driven compressors, here. $75,000. Private plans.

Okla., Oklahoma City—ROUND HOUSE—Atchison, Topeka & Santa Fe R.R. Co., 80 East Jackson Blvd., Chicago, Ill., C. F. W. Felt, ch. engr., plans round house, 36th St. and Sante Fe R.R. tracks, here. $100,000. Private plans.

Calif., Los Angeles—FACTORY—Western Lithograph Co., 600 East 2nd St., had plans prepared by J. F. Rhodes, Pershing Sq. Bldg., 3 story, 75 x 120 ft., rein.-con., Rose St.

Calif., Los Angeles—LAUNDRY—Community Laundry, 1003 McCadden Pl., having preliminary plans prepared by W. J. Saunders, Laughlin Bldg., 145 x 250 ft., Highland and Wiloughby Aves. To exceed $75,000.

Calif., Los Angeles—MACHINERY EXCHANGE — R. Rosenberg, 5041 Franklin Ave., having plans prepared by Kerman & Miller, Bd. of Trade Bldg., 7 story, 300 x 574 ft., stucco and cast stone, Santa Fe Ave., 15th, Imperial and 16th Sts. $1,500,000.

Calif., Pasadena — FACTORY — E. H. Stoll, 341 Wall St., plans 2 story, 100 x 125 ft., brick and concrete, Daisy and Nina Sts. $40,000. Engineer and architect selected soon.

Calif., Sacramento — MACHINERY — State Building Comn. having plans prepared by H. H. Gutterson, 526 Powell St., San Francisco, rein.-con. at state fair grounds. $150,000.

Calif., San Francisco—CANDY and CONFECTIONERY FACTORY — G. Haas & Sons, Phelan Bldg., having plans prepared by W. Lowe, 354 Hobart St., Oakland, 3 story and basement, rein.-con., 10th and Howard Sts. $150,000.

Calif., San Francisco—INDUSTRIAL PLANT—Bliss & Fairweather, archts., Balboa Bldg., preparing preliminary plans rein.-con. industrial plant, south of Market Dist. $500,000. Owner's name withheld.

Bids Desired

Mass., Boston—SALES, SERVICE and REPAIR—Argonaut Realty Corp., c/o H. C. Hickey, in charge, General Motor Bldg., Detroit, Mich., taking bids 2 story, rein.-con. and stone, plain foundation, North Beacon St., here. A. Kahn, Inc., Marquette Bldg., Detroit, Mich., archts. Cadillac Auto Co. of Boston, 664 Commonwealth Ave., lessee. Noted Aug. 4.

Mass., Roxbury (br. Boston)—REPAIR and SERVICE GARAGE—See "Contracts Awarded."

Mass., Webster — PLANT — Aug. 26, by Stevens Linen Wks., rein.-con. and brick, Dudley St. $40,000. C. T. Main, Inc., 201 Devonshire St., Boston, archt.

Conn., Bridgeport—SERVICE STATION and SALES—Aug. 26, by F. L. Miles Co., 2316 Fairfield Ave., 1 story, 100 x 200 ft., rein.-con., brick and steel, Dewey St. $100,000. Fletcher-Thompson, Inc., 542 Fairfield Ave., archts.

Pa., Phila. — MANUFACTURING — See "Contracts Awarded."

Mich., Lansing—FACTORY—Olds Motor Wks., I. J. Reutter, works mgr., taking bids 1 story, rein.-con., brick and steel factory, plain foundation, also 2 story, 80 x 900 ft. warehouse with concrete loading dock. Private plans.

Ill., Chicago—WAREHOUSE and SHOP—Aug. 30, at office West Park Comrs., (Constr. Div.), 1553 West Madison St., J. J. McComb, secy., warehouse and shops building, in Garfield Park. Michaelson & Rognstad, 3256 Franklin Blvd., archts.

Wis., Milwaukee—BOILER HOUSE—See "Buildings-Educational, Religious."

Ia., Ames—DAIRY—Aug. 30, by State Bd. Educ., c/o W. H. Gemmill, secy., Des Moines, 2 story, rein.-con. and brick, here. $400,000. Proudfoot, Rawson & Souers, 810 Hubbell Bldg., Des Moines, archts.

Calif., Los Angeles—LAUNDRY—Bluebird Laundry Co., South Western Ave., taking bids (selected list of bidders), 3 story, 71 x 140 ft. and 40 x 71 ft., rein.-con., 3606 South Western Ave. $100,000. Noted Mar. 31.

Calif., Los Angeles—FACTORY—M. M. Marston, archt., Douglas Bldg., taking bids 1 story and basement, 50 x 50 ft., brick annex, South Maple Ave., for Egyptian Lacquer Mfg. Co., c/o architect.

Calif., San Francisco—FACTORY—See "Contracts Awarded."

Contracts Awarded

Me., Saco — REPAIR and SERVICE GARAGE—York County Motor Corp., c/o J. S. Stickney, archt., Saco, 1 story, rein.-con., plain foundation, to J. M. Johnson, 87 High St. Archts. est. $40,000.

Mass., Boston — STORAGE — Harvard Building Trust, c/o Blackwall, Clapp & Whittemore, archts., 31 West St., 3 story, rein.-con. and steel top addition, Harrison Ave. & Howard St., to Turner Constr. Co., 178 Tremont St.

Mass., Charlestown (Sta. Boston)—BAKERY—General Baking Co., 62 Bunker Hill St., altering 3 and 4 story, 85 x 105 ft., brick, plain foundation, Bunker Hill St., to C. A. Dodge Co., Albany and Erie Sts., Cambridge.

Mass., Hyde Park (Ind. br. Boston)—BLACKSMITH SHOP—F. Kinkel & Son, 10 Wolcott St., 1 story, brick, plain foundation, to C. C. Temple Co., 99 Chauncy St., Boston.

Mass., Lowell—GARAGE and REPAIR SHOP—T. F. Clark, 33 Oak St., 1 story, rein.-con. and brick, plain foundation, Howe St. to J. L. O'Brien, Pines Rd., Billerica, Archts. est. $40,000.

Mass., Norwood—BOILER HOUSE — Plimpton Press, 1 story, rein.-con and brick, plain foundation, to W. Smith & Son, Norwood. Archts. est. $40,000.

Mass., Roxbury (br. Boston)—REPAIR and SERVICE GARAGE—S. Rudnick, c/o Eisenberg & Feer, archts., 46 Cornhill, will build 1 story, 55 x 185 x 280 ft., rein.-con. and brick, plain foundation, 1322 Tremont St. $75,000-$100,000. Work will be done by separate contracts.

R. I., Providence—SALES and SERVICE STATION and REPAIR SHOP—H. K. Noyes & Son, Inc., 857 Commonwealth Ave., Boston, will build 2 story, 90 x 123 ft., rein.-con. and brick, plain foundation, 9 Reservoir Ave., by day labor. Private plans.

N. J., Jersey City—CHEMICAL PLANT—Richards Chemical Wks., 190 Warren St., general contract 2 story and basement, 100 x 200 ft., brick and steel, plain foundation, Warren and Essex Sts., to J. Billington, 198 Fairmount Ave. Archts. est. $100,000.

N. J., Union City—SILK FACTORY—Clark, MacMullen & Riley, archts., 101 Park Ave., New York City, 3 story and basement, 70 x 90 ft., rein.-con., brick and steel, plain foundation, here, to Wighton-Abbott Corp., 552 West 23rd St., New York City, for Schwarzenbach-Huber, Inc., 511 23rd St., Archts. est. $75,000.

Pa., Franklin—MACHINE SHOP and FOUNDRY—E. McGeorge, engr. and archt., 3030 Euclid Ave., Cleveland, O., 1 story, brick and steel, here, to Hughes-Foulkrod Co., 421 7th Ave., Pittsburgh, for Chicago Pneumatic Tool Co., 572 Randolph St., Chicago, Ill. Archts. est. $300,000. Noted Aug. 4.

Pa., Phila. — MANUFACTURING — General Electric Co., Witherspoon Bldg., will build 1 story, gallery and basement, 141 x 554 ft., rein.-con., brick, and steel, plain foundation, Elmwood Ave. between 67th and 70th Sts. $400,000. Work will be done by separate contracts. Harris & Richards, Drexell Bldg., archts. Noted July 16.

Pa., Phila.—FACTORY—Ballinger Co., archts., 12th and Chestnut Sts., 5 story and basement, 90 x 131 ft., rein.-con. and brick, plain foundation, 417-25 North 8th St., to Robert E. Lamb Co., 841 North 19th St., for Brown & Bailey, 410 Franklin St. Archts. est. $300,000. Noted July 28.

Tenn., Nashville—WAREHOUSE, etc.—C. B. Ragland & Co., 152 2nd Ave. S., 3 story and basement, 300 x 500 ft., rein.-con. (wholesale grocery) warehouse, coffee and roasting plant, cold storage, etc., Duncan St., to Mangaums-Bell Constr. Co., Murfreesboro, approximately $65,000.

O., Canton—FACTORY—Central Alloy Steel Corp., rebuilding 1 story 160 x 420 ft., 1100 Beldan Ave. N. E., recently destroyed by fire, to R. H. Evans Co., Daily News Bldg., $75,000. Noted Apr. 14.

O., Chillicothe—REPAIR GARAGE—Dept. Hys. & Pub. Wks., Ohio Hartman Bldg., Columbus, 1 story and basement, brick, concrete and steel, here, to McCurran Bros., Xenia, $42,720.

O., Cleveland — TERMINAL—Oregon — 21st Building Co., general contract motor truck freight terminal addition, incl. 76 x 120 ft. warehouse and dock, etc., 21st St. and Oregon Ave., to A. A. Lane Constr. Co., 1869 East 55th St. Archts. est. $45,000. Knutsen Motor Trucking Co., 2100 Rockwell St., lessee.

Constr. News page 100

Buildings—Industrial (Continued)

Mich., Detroit — PRINTING — Franklin Offset Co., Grand Blvd., 4 story and basement, rein.-con., brick and steel, East Jefferson Ave., to Otto Misch Co., 159 East Columbia St. Archts. est. $150,000.

Mo., Jefferson City—POWER PLANT—Missouri Power & Light Co., Bd. Trade Bldg., Kansas City, altering and constructing rein.-con., brick and steel addition, incl. 3,000 kw. turbo-generator, etc., here, to McClellan & Junkersfield, 68 Trinity Pl., New York City. Engrs. est. $250,000.

Mo., St. Louis—METAL MANUFACTURING PLANT—Alois Aufrichtig Copper & Sheet Iron Mfg. Co., 900 South 3rd St., 1 and 2 story, 160 x 240 ft., rein.-con., brick and steel, Delor St. and Missouri Pacific R.R. tracks, to William H. & Nelson Cunliff Constr. Co., 410 North Euclid Ave. Archts. est. $100,000. Noted June 23.

Tex., Belton—COTTON GIN PLANT—Farm Bureau Gin Co., 24 x 90 ft., brick and concrete, 90 bale capacity, 80 saw 8-stand size, to New Lumber Co., Belton. Archts. est. $42,000 incl. machinery. Noted Aug. 11.

Calif., Los Angeles — FACTORY — See "Proposed Work."

Calif., San Francisco—FACTORY—Pacific Can Co., 290 Division St., will build 1 story, rein.-con., Newhall St. and Williams Ave. $100,000 with equipment $500,000. Work will be done by segregated contracts under supervision L. H. Nishkian, engr., Monadnock Bldg.

Calif., Stockton—TRUCK PLANT—Graham Bros., 1 story, 90 x 540 ft. addition, incl. assembly plant and painting department, to J. F. Shepherd, 1st Natl. Bank Bldg., approximately $150,000.

Buildings—Educational, Religious

Proposed Work

Mass., Brockton—CHURCH—St. Coleman's Parish, W. J. Fennessey, pastor, having plans prepared by E. T. P. Graham, 171 Newbury St., 1 story and basement, brick and stone, plain foundation, Lyman St. and Wendell Ave. $150,000. Noted Aug. 4.

Mass., Chicopee — SCHOOL — City, c/o School Com., plans brick and steel, McKinstry Ave. $200,000. Engineer and architect selected soon.

Mass, Medford (br. Boston)—SCHOOL and CONVENT—St. Joseph's Parish, D. Horgan, pastor, plans brick, steel and stone school and convent. $150,000. Engineer and architect not selected.

R. I., Providence—COLLEGE—Providence College, W. D. Noon, River Ave., having sketches made by J. W. Donahue, 1242 Main St., Springfield, Mass., brick and stone, Eaton St. and River Ave. To exceed $150,000.

Conn., West Hartford (br. Hartford)—CHURCH and PARISH HOUSE—First Congregational Church having plans prepared by Coolidge & Carlson, 89 State St., Boston, church and parish house, South Main and Seyms Sts. $150,000 or more. Noted June 9.

Conn., Wethersfield—HIGH SCHOOL—School Bd., Town Hall, soon take bids brick, steel and stone, Church St. $185,000. Ebbets & Frid, 15 Lewis St., Hartford, archt.

N. J., Bogota (br. Hackensack)—HIGH SCHOOL—Bd. Educ., Boro Hall, having plans prepared by C. V. R. Bogert, 167 Main St., Hackensack, 3 story and basement, brick and steel addition, plain foundation. $150,000.

N. J., Demarest—SCHOOL—Bd. Educ., Boro Hall, having plans prepared by E. Sibley, 1034 Edgewood Lane, Palisades, 2 story and basement, brick and steel, plain foundation. $150,000.

Pa., Lancaster—SCHOOLS—Bd. Educ. havin : plans prepared by W. B. Ittner, 911 Locust St., St. Louis, Mo., and soon takes bids 3 story school, $350,000; and 2 Junior High Schools, $450,000 each. Noted May 12.

N. J., Millburn—SCHOOL—Bd. Educ., Town Hall, soon lets contract 2 story and basement, brick and steel addition to Short Hills School, plain foundation. $150,000. Guilbert & Betelle, 20 Branford Pl., Newark, archts. Noted July 7.

N. J., Newark—HIGH SCHOOL—Bd. Educ., City Hall, Broad and Green Sts., plans brick and steel addition to West Side High School. Engineer and architect not selected.

N. J., New Brunswick—DORMITORIES—New Jersey State College for Women having sketches made by Ludlow & Peabody, 101 Park Ave., New York City, 3 story and basement, brick and steel, plain foundation. $150,000.

N. J., Teaneck — HIGH SCHOOL — Bd. Educ. takes bids about Nov. 1, 3 story and basement, 250 x 250 ft., brick and steel, plain foundation. $725,000. Hacker & Hacker, Ft. Lee Trust Bldg., Ft. Lee, archts. Noted Mar. 31.

Va., Charlottesville—MEDICAL SCHOOL University of Virginia, and Coolidge, Shenley, Bulfinch & Abbott, archts., Ames Bldg., Boston, Mass., soon lets contract 4 story and basement, concrete, brick and steel medical school. $1,500,000. Noted Aug. 11.

W. Va., Bethany — DORMITORIES — Bethany College having plans prepared by A. L. Thayer, Greer Bldg., New Castle, Pa., girls and boys dormitories, $350,000.

Mich., Detroit—SCHOOL—Owner, c/o R. O. Derrick, archt., 120 Madison Ave., having plans prepared 2 story and basement, 50 x 200 ft. brick, steel and rein.-con., plain foundation. $250,000.

Mich., Ann Arbor — LEAGUE — Alumni Assn., E. P. Pomenay, chn., 938 Glengyle Ave., Chicago, Ill., having plans prepared by Pond, Martin & Lloyd, 6 North Michigan Ave., Chicago, Ill., 3 story and basement, brick, steel, stone and rein.-con., plain foundation, North University, here. $650,000.

Wis., Neenah—SCHOOL—Bd. Educ., 561 East Wisconsin St., soon takes bids 2 story and basement, 150 x 200 ft., and 1 and 2 story and basement, 180 x 200 ft., brick and stone buildings, Elm St. $400,000. J. D. Chubb, 109 North Dearborn St., Chicago, Ill., archt. Noted Mar. 17.

Kan., Wellington—HIGH SCHOOL—Bd. Educ. plans 3 story, rein.-con., brick, stone high school. $300,000. Schmidt, Boucher & Overend, 4th Natl. Bldg., Wichita, archts.

Mo., Kansas City — ART GALLERY — William Nelson Gallery, c/o trustee, c/o Wight & Wight, archts., 400 1st Natl. Bank Bldg., having preliminary plans rein.-con., brick and stone, 44th St. and Rockhill Rd. $600,000.

Mo., St. Louis — CHURCH and COMMUNITY CENTER—Asbury Colored Methodist Episcopal Congregation, c/o A. E. Diggs, pastor, 4307 Garfield Ave., having plans prepared by F. J. Roberson & Sons, 13 North Jefferson Ave., 3 or 5 story and basement, 75 x 130 ft. and 2 story and basement, 50 x 138 ft., rein.-con., brick and stone, incl. gymnasium, swimming pool, etc. Taylor and St. Ferdinand Sts. $300,000.

Mo., St. Louis—EXHIBIT HALL—Natl. Dairy Show Assn., c/o F. W. A. Vesper, Grand and Lindell Blvds., making preliminary plans 1 story and part basement, 400,000 sq.ft. floor space on main floor, rein.-con., brick and stone, Oakland Ave. in Forest Park. $500,000.

Tex., Austin—LIBRARY—Bd. Regents, H. J. L. Stark, chn., Orange, having plans prepared by H. M. Greene, 805 Santa Fe Bldg., Dallas, 2 story, brick, stone and rein.-con. addition, on Campus, here.

Tex., Brownsville—HIGH SCHOOL—Bd. Educ., c/o S. C. Tucker, pres., having plans prepared by Phelps & Dewees, 718 Gunter Bldg., San Antonio, brick, concrete and stone Junior High School. $350,000.

Tex., Galveston—NURSES HOME—University of Texas, Austin, having plans prepared by R. L. White, c/o owner, rein.-con., brick and stone, at John Sealy Hospital, here. $225,000.

Tex., San Antonio—SCHOOL—Catholic Church, c/o L. M. J. Dielmann, archt., 305 East Commerce St., plans 3 story, part basement, rein.-con. and brick, plain foundation, Laredo St. between Houston and Travis Sts. $200,000.

Tex., Sherman — ADMINISTRATION — Kid-Key College, c/o E. Spurlock, pres., soon lets contract completing 3 story, 50 x 100 ft., rein.-con., brick, terra cotta and hollow tile, plain foundation, $175,000. Clyce & Rolfe, 306 Commercial Bldg., archts. Noted Dec. 30.

Tex., Stinnett—SCHOOL—Voted $200,000 bonds, school buildings, for Bd. Educ. Address Secretary Bd. Educ.

Okla., Chickasha—DORMITORY—State Board of Affairs, Capitol Bldg., Oklahoma City, having plans prepared by Layton, Hicks & Forsythe, Baniff Bldg., Oklahoma City, 3 story and basement, rein.-con. and brick, plain foundation, on campus, for Oklahoma College for Women, here. $200,000. Noted June 23.

Okla., Enid—GYMNASIUM—Bd. Educ. having preliminary plans prepared by R. W. Shaw, Enid, 2 story and basement, 90 x 160 ft., rein.-con. and brick, plain foundation, 7th St. $150,000.

Okla., Stillwater—COLLEGE—State Bd. Agriculture, Oklahoma City, having plan prepared by Layton, Hicks & Forsythe, Baniff Bldg., Oklahoma City, 2 story, rein.-con., brick and stone, plain foundation, here. $300,000.

Calif., Davis—ANIMAL SCIENCE—University of California, Berkeley, had plans prepared by W. C. Hays, 1st Natl. Bank Bldg., San Francisco, 2 story, 50 x 400 ft., rein.-con., here. $275,000. Noted May 5.

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Constr. News page 101

Buildings—Educational, Religious (Cont.)

Calif., Fresno—COLLEGE—State Building Comn., Sacramento, having plans prepared by Allison & Allison, Hibernian Bldg., Los Angeles, 2 story and basement, 60 x 200 ft., rein.-con. and brick, Fresno St., here, $200,000.

Calif., Los Angeles—SCHOOL—Bd. Educ. had plans prepared by J. R. Kibbey, 600 South Vermont Ave., brick school, $150,000.

Calif., Monrovia—HIGH SCHOOL—Trustees Arcadia, Monrovia, Duarte High School Dist., plans high school, West Orange St. and Madison Ave. $625,000. J. C. Austin & F. M. Ashley, Chamber of Commerce Bldg., Los Angeles, archts. Noted July 14.

Calif., San Francisco — TRAINING SCHOOL — Salvation Army, McAllister and Market Sts., had plans prepared by Inwood & Gayton, 72 Atlantic Ave., Long Beach, part 1 and 2 story, Silver Ave. To exceed $150,000.

Calif., Willits—HIGH SCHOOL—Willits Union High School Dist. plans election $150,000 or more bonds, high school.

Bids Desired

Vt., Rutland — HIGH SCHOOL — School Com. taking bids 3 story, 125 x 215 ft., brick and steel, stone or terra cotta, Church St. $400,000. A. G. Creighton, 140 State St., New London, Conn., archt.

R. I., Edgewood (Providence P. O.) — SCHOOL — Town of Cranston, Edgewood School Com., taking bids and open same about Sept. 10, 2 story and basement, 70 x 120 ft., brick and steel, Beachmont Ave., here. $185,000. W. R. Walker & Sons, 49 Weybosset St., Providence, archts.

R. I., Providence—NURSES' HOME—Homeopathic Hospital of R. I., 825 Chalkstone Ave., taking bids 2 story and basement, brick addition, plain foundation. $150,000. Jackson, Robertson & Adams, Turks Head Bldg., archt. Noted Apr. 14.

Conn., Hartford—SYNAGOGUE—Agudus Achim Congregation, B. Eachtel, taking bids 2 story and basement, 68 x 100 ft., rein.-con., brick and steel, Oakland, Terrace and Greenfield St. $150,000. Berenson & Moses, 30 Allyn St., archts.

N. Y., College Point—(Ind. Sta. Flushing)—SCHOOL—Sept. 7, by W. H. Gompert, archt. and supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 29, 23rd Ave. from 125th to 126th Sts., here, for Bd. Educ., 500 Park Ave., New York City.

N. Y., Glendale (mail Brooklyn)—SCHOOL—Sept. 13, by W. H. Gompert, archt. and supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 113, 4 story, brick, steel and stone, plain foundation, 79th and 78th Aves., 87th and 88th Sts., here, for Bd. Educ., 500 Park Ave., New York City. Noted Jan. 20.

N. Y., New York—SCHOOL—Sept. 7, by W. H. Gompert, archt. and supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 14, 3 story, 130 x 165 ft., brick, steel and stone, plain foundation, Eastern Blvd. and Baisley Ave., here, for Bd. Educ., 500 Park Ave., New York City. Noted Feb. 3.

N. J., Glassboro—DORMITORY—Sept. 7, by Institutions & Agencies, Trenton, 3 story and basement, 45 x 167 ft., brick, for State Normal School, here. Guilbert & Betelle, Chamber of Commerce Bldg., Newark, archts. Noted July 14.

N. J., Jersey City—SCHOOL—Sept. 7, by Institutions & Agencies, Trenton, New State Normal School, 2 story and basement, 68 x 241 ft., brick and rein.-con., here. Guilbert & Betelle, Commerce Bldg., Newark, archts. Noted Apr. 14.

Pa., Lansdowne—HIGH SCHOOL—Aug. 30, by School Dist., F. S. Underhill, 112 North Broad St., Phila., Junior and Senior High School, 2 story and basement, 79 x 390 ft., and 119 x 127 ft., rein.-con., brick and steel, plain fonudation, Green and Highland Sts., here. Heacock & Hokenson, 1211 Chestnut St., Phila., archts.

La., Lake Charles—CHURCH—Sept. 1, by Broad St. Methodist Congregation, R. W. Wynn, pastor, 3 story, rein.-con., brick, steel and cut stone, Broad and Kirkman Sts. $150,000. R. S. McCook, Frank Bldg. and Asmus & Clark, Nashville Trust Bldg., Nashville, Tenn., associated archts. Noted Mar. 10.

O., Neptune (Celina P. O.)—SCHOOL—Sept. 16, by Bd. Educ., F. Young, clk., R. F. D. 4, Celina, 3 story and basement, 86 x 120 ft., brick and concrete, incl. auditorium and gymnasium, here. $150,000. Porter & Virtue, 1714 North High St., Columbus, archts.

Mich., Bath—SCHOOL—Aug. 29, by Bd. of Educ., 2 story and basement, rein.-con., brick and steel, plain foundation. $225,000. Warren Holmes-Powers Co., Capitol Savings Bank Bldg., Lansing, archts.

Constr. News page 102

Ill., Chicago—SCHOOL—Sept. 1, by Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., general contract 3 story, 90 x 240 ft. school at Major and Roscoe Sts. $500,000. J. C. Christensen, 650 South Clark St., archt.

Wis., Milwaukee—SCHOOL—Sept. 1, by Bd. School Directors, Townsend School, 3 story and basement, 148 x 174 ft. school, and 70 x 70 ft. boiler room, brick, natural stone, and terra cotta, Sherman Blvd. Private plans.

Tex., San Antonio—SALVATION ARMY BUILDING—Salvation Army, c/o E. White, College and Presa Sts., taking bids and open same about Sept. 9, 5 story and part basement, rein.-con., hollow tile and stucco, plain foundation, Presa and College Sts. $150,000. A. B. and R. M. Ayers, 626 Bedell Bldg., archts. Noted Aug. 18.

Calif., San Francisco—INFANT SHELTER—San Francisco Infant Shelter, c/o Palace Hotel, having plans prepared by L. C. Mullgardt, Bohemian Club, 2 story, frame and stucco, Ortega St. and 19th Ave. $150,000.

Bids Received

Pa., Phila.—SCHOOL—Bd. Educ., J. D. Cassell, supt. buildings, 19th and Chestnut Sts., Aug. 9, 5 story and basement, 156 x 164 ft., rein.-con., brick and steel, trade school, plain foundation, Frankford and Clementine Sts., from McCloskey Co., 1620 Thompson St., $909,730. Noted Aug. 4.

Contracts Awarded

Vt., Middlebury—LIBRARY—Middlebury College, J. A. Fletcher, 1 and 2 story, basement, and 2 wings, steel, brick, and marble, plain foundation, to Cummings Constr. Co., 14 Prospect St., Ware, Mass. Noted Mar. 24.

R. I., North Providence (br. Providence)—ORPHANAGE—St. Mary's Orphanage, F. B. Atkinson, supt., 3 story and basement, brick and stone, plain foundation, Fruit Hill Ave., to A. W. Merchant, Inc., 15 Westminster St., Providence. Archts. est. $150,000 or more. Noted May 26.

Conn., Hartford — SCHOOL — South School Dist., J. E. Naylor, chn., general contract 3 story, white brick, steel and concrete, Franklin Ave., to G. Cudemo & Son N. E. Constr. Co., 68 Temple St., $411,635; plumbing, to J. M. and M. A. Fierberg, 1337 Main St., $26,435; heating and ventilating, to Libby & Blinn, 135 Sheldon St., $45,500. Grand total $483,570.

N. Y., Brooklyn—LIBRARY—J. J. Byrne, Pres. Brooklyn Boro, Boro Hall, general contract Indiana limestone wing of Brooklyn Public Library, Prospect Park Plaza between Flatbush Ave. and Eastern Parkway, here, to Thomas J. Waters Co., 415 Lexington Ave., New York City, approximately $1,000,000. Noted July 14.

N. Y., Brooklyn—SCHOOL—Bd. Educ., 500 Park Ave., New York City, addition to P.S. 104, 92nd St. and 5th Ave., here, to D. M. W. Contg. Co., 2058 Fulton St. $489,450; heating, to D. J. Rice, Inc., 405 Lexington Ave., New York City, $57,470. Noted May 26 and July 28.

N. Y., Corona—SCHOOL—Bd. Educ., 500 Park Ave., New York City, general contract P. S. 14, Otis Ave. and Van Dorne St., Corona Heights, here, to Concord Constr. Co., 476 Seneca Ave., Brooklyn, $303,400; and heating, to H. Starkman & Bros. 333 East 81st St., New York City, $46,220. Noted July 7.

N. J., Keyport—HIGH SCHOOL—Bd. Educ., general contract 2 story basement, brick and steel, plain foundation, Broad St., to M. Riesg, Amboy Rd., Metuchen, approximately $190,000. Noted July 21.

N. J., West New York (Ind. br. Weehawken) — APARTMENT — Park Ave. Constr. Co., Park Ave., general contract 5 story and basement, brick and steel, plain foundation, Park Ave. and 16th St., to W. Walser, 524 17th St. Archts. est. $150,000. Noted June 2.

Pa., Phila.—SCHOOL—Girard College, Stephen Girard Estate, Lafayette Bldg., 4 story and basement, 63 x 92 ft., rein.-con., brick and stone addition, plain foundation, Girard and Corinthian Sts., to Day & Zimmerman, 1600 Walnut St. Archts. est $465,000.

Pa., Swarthmore—MEMORIAL DORMITORY—Swarthmore College, 2 story and basement, 133 x 133 ft., brick and steel, plain foundation, to McNeill Constr. Co., Schaff Bldg., Phila.

D. C., Wash.—CHURCH and SUNDAY SCHOOL—Fourth Church of Christ Scientist, 16th St. between Oak and Meridian Sts. N. W., church and Sunday school, to N. P. Severin Co., 105 West Monroe St., Chicago, Ill., $250,000. Noted July 24.

La., Natchitoches — COLLEGE — State Normal College, O. L. Roy, pres., 3 story, rein.-con. and brick and 2 story brick, here, to Knapp & East, Lake Charles, $225,000. Noted July 21.

Tenn., Nashville—HIGH SCHOOL—Bd. Educ. having plans prepared by C. S. Colley & Sons, 4th and 1st Natl. Bank Bldg. Junior High School, incl. gymnasium, auditorium, manual training department, etc. $250,000.

O., Bellevue — HIGH SCHOOL — Bd. Educ., for Central High School, brick, steel and concrete, to Hossler Bros., Tiffin, $278,579. Noted Aug. 18.

O., Cleveland — LIBRARIES — Cleveland Pub. Library, C. S. Metcalf, secy., library, West 157th St. and Lorain Ave., to H. E. Klefman Co., 2840 Lorain Ave., $86,000; and library, East 152nd St. and St. Clair Ave., to W. F. McCarthy, 14404 Northfield Ave., $85,194, both brick, steel and concrete.

Mich., Flint — HIGH SCHOOL — Bd. Educ., 3 story, 220 x 350 ft., rein.-con., brick and steel, plain foundation, to W. E. Wood Co., 611 Smith Bldg., $499,400; heating, to Ryan Plumbing & Heating Co., 403 Brady St., Davenport, Ia., $124,500. Noted Aug. 4.

Wis., Milwaukee—NURSES HOME—St. Marys Hospital, 144 Lake Dr., 5 story and basement, rein.-con., brick, and Bedford stone, concrete foundation, Lake Dr., to Theo. Stark & Co., 130 Muskego Ave. Archts. est $500,000. Noted May 12.

Okla., Goodwell — LABORATORY — Panhandle A. & M. College, 3 story and basement, fireproof, to Bailey & Barnes, Norman, $109,500. Archts. est. $150,000.

Colo., Denver—HIGH SCHOOL—School Dist., 2 and 3 story, 237 x 257 ft., rein.-con., brick and steel, plain foundation, Holly St. between 25th and 26th Sts., to W. Tamminga, Tramway Bldg., $369,990, plumbing and heating, to Johnson & Davis Plumbing & Heating Co., 2239 Arapahoe St., $48,806.

Ont., Toronto — COLLEGIATE — Bd. Educ., 155 College St., 2 story and basement, brick, cut stone and tile addition to Parksdale Collegiate, plain foundation, masonry, to J. W. Hewitt & Son, 56 Roncesvalles Ave.; carpentry, to P. Wilson, 22 Bank St.; steel, to Reid & Brown, Esplanade; marble and tile, to Italo-Canadian Terrazo Tile Co., 429 Spadina Ave.; plastering, to E. J. Curry, 115 Bleeker St.; heating, to Gentle, Traves & Weinraub, 291 Broadview Ave., and ventilation, to F. Ledgett, 108 Clinton St. Archts. est. $160,000.

Federal Government Work

Bids Desired

Me., Caribou — Post Office — Sept. 8, by Treas. Dept. at office J. A. Wetmore, acting superv. archt., Wash., D. C., U. S. Post Office, here.

Mass., Marlboro—Post Office—Sept. 14, by Treas. Dept. at office J. A. Wetmore, superv. archt., Wash., D. C., enlarging post office, here; adv. E. N.-R. Aug. 25.

N. Y., Buffalo—Interior Changes—Sept. 15, by Treas. Dept., at office J. A. Wetmore, superv. archt., Wash., D. C., interior changes at marine hospital, here; adv. E. N.-R. Aug. 25.

Pa., Phila.—Repairs—Sept. 6, by G. S. Burrell, Pub. Wks. officer, repairing radial block chimney of power plant at Marine Corps Boiler Plant.

Fla., Pensacola—Concrete Fire Wall—Spec. 5456—Sept. 28, by Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete fire wall at Naval Air Station, here.

Ky., Louisville—Dike—Aug. 31, at U. S. Engineer Office, for Sand Island Dike; adv. E. N.-R. Aug. 25.

Ky., Louisville—Hoist—Sept. 19, at U. S. Engineer Office, floating A-frame hoist; adv. E. N.-R. Aug. 25.

Ia., Shenandoah—Post Office—Sept. 2, by Supervising Architect, Treas. Dept., Wash., D. C., post office extensions, etc., here.

Utah, Ogden—Roads—Aug. 31, by Natl. Park Serv., Dept. of Interior, constructing East Rim Road Project, Sects 1 and 2, in Zion Natl. Park, Washington Co.

Ore., Portland—Stone—Sept. 14, at U. S. Engineer Office, 660,000 tons stone for jetties at Cross Bay entrance.

Calif., Palo Alto—Fence and Gates, etc. —Sept. 6, by U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., fence and gates at U. S. Veterans Hospital 24, here.

Calif., San Diego—Garage—Spec. 5363—Sept. 7, by Bureau Yards & Docks, Navy Dept., Wash., D. C., garage at nurses' quarters, here.

Bids Received

New Mexico—Road—Bureau Pub. Rds., Custom House, Denver, Colo., J. W. John-

Federal Government Work (Continued)

son, dist. engr., surfacing 6.61 mi. section Cimiarron-Taos Natl. Forest Rd. Project, Taos Co., here, from Shield & Kyle, 640 South Race St., Denver, Colo., $91,224. Noted July 28.

Contracts Awarded

Me., Ellsworth — Remodeling — Treas. Dept., Wash., D. C., remodeling U. S. Post Office, here, to S. Pasquale, 9 Stedman St., Boston, Mass., $3,700. Noted July 21.

New York—Dredging—U. S. Engineers Office, 1st Dist., Army Bldg., 39 Whitehall St., New York City, dredging in Peekskill Harbor, to J. P. Randeson, 68 Chap. St., Albany, N. Y., $12,992; in Tarrytown Harbor, to P. Sanford Ross, Inc., 277 Washington St., Jersey City, N. J., $33,832. Noted June 30.

Md., Baltimore — Remodeling — Treas. Dept., Wash., D. C., changes in Detention and Receiving Building, Immigration Station, here, to Avon Constr. Co., Gardenville, $11,639.

Tenn., Memphis—Levee—Engineers Office, War Dept., Wash., D. C., constructing levees in Upper and Lower St. Francis and White River Levee Dists., Pieces 1 to 7 inch, to E. M. Lawrence, Memphis, $176,128; Pieces 9 to 11 inch, to Jones & Rodgers, Memphis, $118,450; and Pieces 12, 13, 14, 16, 17 inch, to Lawrence Bros. & Co., Memphis, $521,855. Grand total $816,433.

Wyoming — Roads — Bureau Pub. Rds., Custom House, Denver, Colo., J. W. Johnson, dist. engr., grading 6.55 mi. Cub Creek Sect. Entrance Natl. Park Rd., Project Yellow Stone Natl. Park, here, to Morrison-Knudsen Co., 318 Bway., Boise, Idaho, $135,000; and 4.54 mi. Granite Creek-Shell Rd. 1, Natl. Forest Road Project, Bigham Co., here, to Scott & Curlee, Sterling, Colo., $58,820. Noted July 28.

Mo., Jefferson Barracks (br. St. Louis)—Concrete Sidewalks—U. S. Veterans' Bureau, 791 Arlington Bldg., Wash., D. C., concrete sidewalks at U. S. Veterans' Hospital 92, here, to Hinehmann-Renton Constr. Co., St. Louis, Mo., $4,241. Noted July 28.

Idaho, Coeur D'Alene—Post Office—Treas. Dept., Wash., D. C., constructing U. S. Post Office, here, to Welch & Fritz, Bancroft Bldg., San Diego, Calif., $171,384. Noted June 9.

Unclassified

Proposed Work

Airport—Brockton, Mass.—Plans airport. To exceed $25,000. S. Shapiro, City Hall, chn. com. Engineer not selected.

Airport and Hangars—Corona, N. Y.—Lewis Development Co., 47 West 34th St., New York City, making plans airport with hangars, meterological office and buss station, here. $500,000. O. E. Anderson, 47 West 34th St., New York City, engr.

Subway—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., rejected bids June 24, constructing Sects. 1 and 2, Route 45, Bway.-4th Ave. Rapid Transit R.R., Manhattan Boro. Noted June 30.

Airport—Newark, N. J.—Dept. Pub. Affairs, City Hall, making sketches airport, incl. machine shops hangars, etc. $700,000. Engineer and architects names withheld.

Land Development — St. Louis, Mo. — Stedelin Bros., 823 North 4th St., purchased 50 acre site bounded by Meramec St., Gravois and Spring Aves., and plans sub-division development, incl. grading, sewers, water, sidewalks, street paving, etc. $50,000. Private plans.

Swimming Pool — St. Louis, Mo. — See "Buildings—Educational, Religious."

Transmission Lines—Texas—West Texas Utilities Co., Abilene, takes bids in September, 150 mi. high power transmission lines in Crane Co. $2,000,000. Private plans.

Gas Pipe Line—Texas and Oklahoma—Oklahoma Natural Gas Co. (subsidiary of Phillips Petroleum Co.), Amarillo, Tex., and 1 East 36th St., Oklahoma City, Okla., takes bids about Sept. 1, 22 in. natural gas pipe line from Borger to Norge, Tex., and two 12 in. lines from Norge, Tex., to Oklahoma City, Okla. $10,000,000. Private plans.

Underpasses — Amarillo, Tex. — Making plans 2 railway underpasses carrying street traffic under tracks of Rock Island Lines and Ft. Worth & Denver City Ry. $150,000. B. Jones, city engr.

Oil Pipe Line—Brady, Tex.—Lehman & Van Bebber making plans 2 mi. 6 and 8 in. oil pipe line from oil wells in Brady Dist. $35,000. Private plans.

Oil Pipe Line — Dumas, Tex. — Prairie Pipe Line Co. making plans 25 mi. 4 in. oil pipe line radiating from Merchant Pool, near here. $100,000. Private plans.

Land Development—Edinburg, Tex.—Red Land Vineyard Co., c/o I. A. White, pres., making plans developing 1,000 acres, incl. drilling wells, windmill, tower and tank on each 10 acres, near here. $35,000 incl. machinery. Private plans.

Townsite Development—Lockney, Tex.—A. Baker making preliminary plans developing 890 acre plot for townsite, incl. paving $40,000, waterworks $30,000, and sewers $30,000, near here. Private plans.

Gas System—Seguin, Tex.—Southern Gas Co., c/o City Natl. Bank Bldg., San Antonio, takes bids about Sept. 15, natural gas distributing system, here. $30,000.

Gas Line—Oklahoma—Oklahoma Natural Gas Co., 117 West 4th St., Tulsa, R. C. Sharp, pres., made plans 20 mi. 16 in. gas line from Norge to Chickasha. $225,000. R. C. Sharp, 1606 South Newport St., Tulsa, engr.

Pumping Unit—Shawnee, Okla.—Prairie Pipe Line Co., Independence, Kan., J. W. Gates, pres., made preliminary plans new pumping unit, incl. 660 hp. Diesel engine and pump, near here. $40,000. Private plans.

Compressor Unit—Tallant, Okla.—Empire Pipe Line Co., Bartlesville, made plans 1,000 hp. gas compressor unit, here. $40,000. Private plans.

Bids Desired

Culverts—New York—Aug. 26, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, 4 rein.-con. culverts along Conduit Blvd., Queens Co.

Elevators—Thiells, N. Y.—Sept. 14, by Commissioner Dept. Mental Hygiene, Capitol Bldg., Albany, electric elevators, Letchworth Village, here; adv. E. N.-R. Aug. 25.

Culvert — Memphis, Tenn. — Aug. 30, at office C. C. Pashby, city clk., 125 lin.ft. 16 ft. circular concrete box culvert known as "Huling Tunnel," foot Huling St. and Mississippi River. R. Paine, mayor; adv. E. N.-R. Aug. 25.

Aviation Field—Nashville, Tenn.—"See "Contracts Awarded."

Centrifugal Sump Pumps, etc.—Phila., Pa.—Aug. 30, by Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., electrically operated centrifugal sump pump in 6 of drainage sumps of Broad St. Subway, incl. altering sump pump room structures, installing pipes, fittings, valves, etc. Contr. 178.

Telephone Extensions—St. Louis, Mo.—See "Contracts Awarded."

Transmission Line — Texas — See "Contracts Awarded."

Undergrade Crossing—Seattle, Wash.—See "Streets and Roads."

Lighting System—Brawley, Calif.—Sept. 6, by City Trustees, ornamental lighting system on Main St. between 10th St. and west city limits. To exceed $25,000.

Lighting System — Huntington Beach, Calif.—Sept. 6, by C. R. Furr, city clk., ornamental lighting system on Main St. between Ocean Ave. and Mansion St. To exceed $25,000.

Transmission Line — Modesto, Calif. — Sept. 1, by C. S. Abbott, secy. Modesto Irrigation Dist., 40 mi. 66,000 volt transmission line, incl. bare copper cable, porcelain insulators, hardware, etc.

Bids Received

Elimination of Grade Crossing — New York — A. W. Brandt, comr. Highways, Albany, eliminating grade crossing on Southern State Parkway, Sect. 1, Part 3, Nassau Co., from Westchester Constr. Co., Ft. Plain, $110,580. Noted July 28 under "Bridges."

Coal Trestle—Orangeburg, N. Y.—Dept. Mental Hygiene, Capitol, Albany, constructing approximately 1 mi. track and coal trestle at Rockland State Hospital, here, from P. H. Murray, 226 15th St., Troy, $99,936. Engrs. est. $118,784. Noted July 28.

Contracts Awarded

Conduits—New Britain, Conn.—Bd. Pub. Wks., conduits in Court, South High and Main Sts. from Central Park to Chestnut Sts., to G. M. Gest Co., 233 Bway., New York City, $24,800. Engrs. est. $25,000.

Lighting System — New York — See "Streets and Roads."

Aviation Field—Nashville, Tenn.—City will grade 145,000 cu.yd. aviation field, by day labor, under direction W. W. Southgate, City Hall, engr. Engrs. est. $40,000. Noted July 7.

Subway — Illinois — See "Streets and Roads."

Boilers, etc.—St. Louis, Mo.—Bd. Pub. Serv., 208 City Hall, three 500 hp. boilers for municipal service building, to Heine Boiler Co., 5319 Shreve Ave., $37,078; brick settings for above, to D. Seeger, Ry. Exch. Bldg., $12,876; and 1 story and basement, 53 x 60 ft., rein.-con. and brick substation in Dist. E, to Atlas Constr. Co., International Life Bldg., $18,209. Grand total $68,163. Noted Aug. 11.

Plumbing, etc.—St. Louis, Mo.—Comrs. Metropolitan Police Dept., c/o A. C. Orrick, pres., 208 South 12th St. Blvd., plumbing for 5 story and basement, 138 x 218 ft., police headquarters, rein.-con., brick and stone, 12th St. Blvd. and Clark Ave., to J. M. Wheeler & Co., 6190 Delmar Blvd.; electrical wiring, to E. O. Rorsch Electric Co., 1405 Olive St.; and heating, to Eichler Heating Co., Ry. Exch. Bldg. Noted July 21 under "Buildings-Commercial."

Telephone Extensions—St. Louis, Mo.—Southern Bell Telephone Co., 11th and Pine Sts., will construct approximately 3 mi. aerial and install 4,300 ft. underground cable, incl. 160 poles, etc., in district bounded by Grand Blvd., Magnolia, Chouteau and Tower Grove Aves. $60,000; and approximately 3.5 mi. aerial and 5,000 ft. underground cable in district bounded by Sarah St., Vanderventer, Laclede and Labadie Aves. $65,000, by own forces. Private plans.

Gas Mains—Texas—Western Gas & Fuel Co. (Barney Carter Interests, Ranger), San Angelo, 76 mi. 8 in. gas mains from San Angelo to Ballinger, Winters, Miles, Rowena, Talpa, Valera and Silver City, also 20 mi. 6 in. main from main line to Winters, etc., to Atex Constr. Co., Eastland, approximately $275,000.

Transmission Line—Texas—San Antonio Pub. Serv. Co., c/o E. H. Kifer, San Antonio, and Comal Power Co., New Braunfels, will build high power transmission line from New Braunfels to San Antonio, by day labor. $225,000. Private plans.

Causeway—Texas and Louisiana—Sabine Developers, c/o H. McKee, Port Arthur, Tex., take bids about Sept. 1, 6 mi. timber and rein.-con. causeway from Sabine Lake at Port Arthur, Tex. to Louisiana side. $1,500,000. Private plans.

Street Lighting System—Portland, Ore.—Ornamental lighting system and setting curb 3 ft. back on 10th St. between Hoyt and Jefferson Sts., to Ne Page McKinney & Co., 8 North 9th St., and Northwestern Electric Lighting Co., Pittock Bldg., $62,068 and $39,811 respectively.

Lighting System—Corona, Calif.—Ornamental lighting system on Grand Blvd., to H. M. House, 771-3rd St., San Bernardino, $30,550. Noted May 26.

Lighting System—Long Beach, Calif.—Ornamental lighting system on 4th St. between Los Alamitos and Junipero Aves., to Paulson Constr. Co., Detwiler Bldg., Los Angeles, $33,888.

Lighting System—Los Angeles, Calif.—Ornamental lighting system on Rochester Ave. between Beverly Glen and Westwood Blvds., to Electric Lighting Supply Co., 214 West 3rd St., $84,975.

Stadium — Palo Alto, Calif. — Stanford University, stadium addition, 16,600 seating capacity, to Palmer & McBryde, 503 Market St., San Francisco.

Materials

Proposed Work

Cement—Los Angeles, Calif.—Los Angeles Co. rejected bids 35,000 bbl. cement for Puddingstone Dam.

Bids Desired

Frogs, Joint Bars, etc—Phila., Pa.—Aug. 30, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., West Phila., frogs, switches and crossings, Contr. 102; and joint bars, Contr. 103.

Gravel—Carthage, Miss.—See "Streets and Roads."

Road Oil—Washington—State Hy. Comm., Olympia, taking bids 50,000 gal. road oil for unpaved roads. S. J. Humes, highway comr.

Cast Iron Pipe, etc.—San Juan, Porto Rico—Sept. 20, at office R. H. Todd, mayor, 1,350 tons c.i. pipe, etc.; adv. E. N.-R. Aug. 25.

Contracts Awarded

Pipe—St. Paul, Minn.—A. E. Eggert, city purch. agt., 47,520 lin.ft. 3- to 16-in. c.i. pipe, to Amer. Cast Iron Pipe Co., 712 Plymouth Bldg., Minneapolis; U. S. Cast Iron Pipe & Fdry. Co., 623 Glymouth Bldg., Minneapolis; and Natl. Cast Iron Pipe & Fdry. Co., Tarrant City, Birmingham, Ala.

See proposal advertising on page 118

Constr. News page 103

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Bridge—Norfolk, Va.

Bids were opened by Norfolk-Portsmouth Bridge Corp., Park and Truxton Sts., June 20, for bridge between South Norfolk and Portsmouth, substructure, from (A) Hardaway Contracting Co., Columbus, Ga.; (B) Sanford & Brooks Co., Norfolk; (C) Atlantic Bridge Co., Greensboro, N. C.; (D) The Foundation Co., New York City; superstructure, from (A) Atlantic Bridge Co.; (B) McClintic-Marshall Co., Philadelphia, Pa.; (C) Phoenix Bridge Co., Phoenixville, Pa.; (D) Sanford & Brooks Co. The unit bids are as follows:

	A	B	C	D
SUBSTRUCTURE				
1,830 cu.yd. concrete—base of tower piers	$31.00	$39.90	$45.50	$50.00
680 cu.yd. concrete—bases of cylinder piers	32.00	42.00	44.00	55.40
140,000 steel shells	.08	.075	.07	.0915
660 cu.yd. concrete in shafts	26.00	41.40	25.00	37.10
4,900 lin.ft. untreated piles	1.00	1.87	2.50	3.10
4,500 lin.ft. concrete piles	6.00	5.14	6.00	9.63
100 cu.yd. concrete in caps	26.00	26.40	35.00	67.30
35,000 lb. reinforcing steel	.05	.05	.05	.126
14 test piles	75.00	100.00	150.00	143.00
Borings (lump sum)	900.00	500.00	1,200.00	1,500.00
Fenders (lump sum)	7,500.00	5,000.00	4,500.00	7,000.00
500 ton riprap	5.00	5.00	4.00	8.70
Totals	$155,050	$185,484	$193,785	$250,985
SUPERSTRUCTURE				
2,720,000 lb. span and tower metal	$0.0647	$0.0717	$0.0822	$0.0827
370,000 lb. trestle metal	.0465	.0497	.044	.0551
125,000 lb. handrails	.0542	.0574	.0475	.0714
90,000 lb. sheaves, shafts and bearings	.187	.2015	.223	.21
30,000 lb. operating machinery	.380	.229	.223	.404
48,000 lb. wire ropes	.22	.20	.1955	.21
75,000 lb. balance chains	.08	.0735	.05	.147
Motors and electrical equipment (lump sum)	14,500.00	11,000.00	9,230.00	16,275.00
Gates and warning signals (lump sum)	2,650.00	4,350.00	4,355.00	3,100.00
Gas engine and accessories (lump sum)	2,100.00	1,700.00	1,590.00	1,680.00
825 cu.yd. concrete	23.00	24.00	40.00	31.00
125 cu.yd. haydite concrete	32.00	43.25	50.00	44.00
3,500 sq.yd. asphalt concrete pavement	1.43	1.80	1.60	1.50
3,500 sq.yd. bitulithic pavement	1.43	1.55	1.44	1.50
350 cu.yd. concrete in counterweight	25.00	29.75	37.40	39.00
150,000 lb. reinforcing steel	.05	.049	.0575	.055
Machinery house (lump sum)	2,500.00	3,000.00	2,700.00	2,470.00
Roadway lighting system (lump sum)	4,800.00	3,000.00	2,600.00	6,000.00
Totals	$315,534	$332,149	$372,175	$394,851

Engineering News-Record, Issue of August 25, 1927

Retaining Walls—Cedar Rapids, Iowa

Bids were opened by City, May 26, for reinforced concrete retaining walls along east bank of Cedar River between First and Third Aves., from (A) Cedar Rapids Construction Co., Cedar Rapids; (B) Allied Contractors, Omaha, Neb.; (C) A. A. Alexander, Des Moines; (D) Bland Engineering Co., Minneapolis, Minn.; (E) Wickham Bridge & Pipe Co., Council Bluffs; (F) J. W. Hopp Construction Co., Cedar Rapids. The unit bids are as follows:

	A	B	C	D	E	F
1,924 cu.yd. footing excavation	$3.50	$6.63	$3.00	$4.80	$3.00	$5.50
4,756 cu.yd. dry excavation	2.50	1.02	1.00	2.40	3.00	2.00
5,734 lin.ft. timber piling	.65	.61	.75	.62	.80	1.20
1,314 cu.yd. Class A concrete	16.50	12.25	19.00	15.00	16.00	19.80
1,068 cu.yd. Class B concrete	13.00	19.90	20.00	22.75	19.40	15.50
264,321 lb. reinforcing steel	.045	.0443	.04	.0409	.05	.05
13,900 sq.ft. surface finish	.08	.062	.10	.08	.10	.10
640 lin.ft. concrete handrail	3.00	3.06	3.00	6.45	3.75	5.45
32,347 cu.ft. brick buildings, stone and concrete walls to remove	.25	.38	.40	.41	.50	.47
Electric light posts, conduit and wiring (lump sum)	680.00	510.00	750.00	675.00	800.00	820.00
Alternate bid for surface finish and iron composition waterproofing, 27,000 sq.ft.	.125	.14	.15	.13	.....	.1258
Totals	$81,529	$85,786	$88,726	$98,200	$100,350	$103,663
Totals (alternate)	$83,892	$88,816	$91,506	$100,701	.....	$105,817

Engineering News-Record, Issue of August 25, 1927

Constr. News page 104

UNIT PRICES *Continued on page 104a*

Increase the *Life and Serviceability* of Your Concrete Floors!

GRINDING use will wear down and break the surface of the best concrete floors *unless they are specially hardened.*

In selecting a hardener it is wise to consider its reputation for service. Lapidolith is the original concrete floor hardener. It was widely used for years before the "just as good" imitations appeared on the market. When you treat your floors with Lapidolith you can be certain of satisfactory results.

Not only is the reputation of this product your guarantee of lasting protection, but you have an additional safeguard in the standing of the concern behind it. Any architect or builder knows the worth of Sonneborn products.

Lapidolith can be applied by your own workmen for it goes on the floor like water. If desired, our own service crew will apply it.

This liquid, chemical compound penetrates cement pores, arresting the wear on old floors and preventing any wear on new ones. Makes floors hard for a life-time.

In your own city we can show you floors that are Lapidolith-treated so you can see for yourself how it protects and saves.

The coupon below will bring you literature and samples.

LAPIDOLITH
TRADE MARK

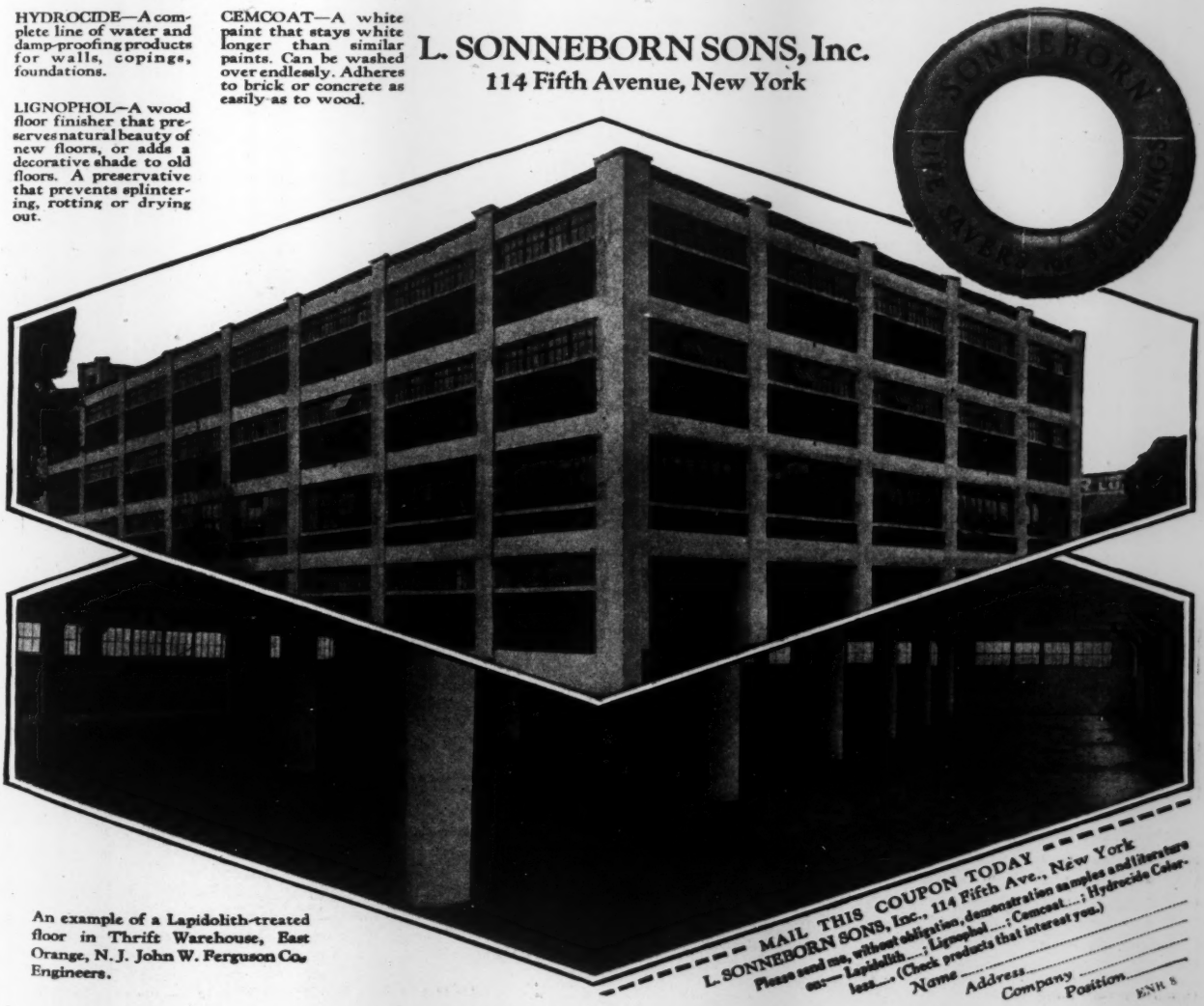
Other Sonneborn *Life-Savers* for Buildings

HYDROCIDE—A complete line of water and damp-proofing products for walls, copings, foundations.

LIGNOPHOL—A wood floor finisher that preserves natural beauty of new floors, or adds a decorative shade to old floors. A preservative that prevents splintering, rotting or drying out.

CEMCOAT—A white paint that stays white longer than similar paints. Can be washed over endlessly. Adheres to brick or concrete as easily as to wood.

L. SONNEBORN SONS, Inc.
114 Fifth Avenue, New York



An example of a Lapidolith-treated floor in Thrift Warehouse, East Orange, N. J. John W. Ferguson Co. Engineers.

MAIL THIS COUPON TODAY

L. SONNEBORN SONS, Inc., 114 Fifth Ave., New York

Please send me, without obligation, demonstration samples and literature on—Lapidolith ...; Lignophol ...; Cemcoat ...; Hydrocide Colorless ... (Check products that interest you.)

Name .....

Address .....

Company .....

Position .....

ENR 8

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Paving—Philadelphia, Penn.

Bids were opened by Bureau of Highways, Dept. of Public Works, June 7, for Schedule A, improvement of Frankford Ave. from Bridge to Longshore Sts., from (A) Union Paving Co., 30th and Locust Sts., (awarded contract); (B) Eastern Asphalt Co., Pennsylvania Bldg.; (C) Municipal Paving Co., 702 Catherine St.; (D) Barber Asphalt Co., 30th and Race Sts. The unit bids are as follows:

	A	B	C	D
42,632 cu.yd. grading calculated to establish subgrade (cut 39,155, fill 42,632 cu.yd.) approximately 5,000 cu.yd. road metal to be placed in streets designated	$1.25	$1.03	$0.94	$0.99
4,954 cu.yd. furnishing and laying portland cement concrete base	9.00	9.00	8.37	8.18
3,775 sq.yd. asphalt pavement, 1-in. binder and 1½-in. surface courses	1.51	1.48	1.57	1.55
15,300 sq.yd. asphalt pavement, 1-in. surface course between railway tracks	.87	.85	1.32	1.08
2,244 tons broken stone subbase under ties, 1-3-in.	3.10	2.95	3.79	3.46
1,366 cu.yd. grading for slag sub-base (cut 1,366, fill 878 cu.yd.)	1.00	1.40	.83	.95
37,884 sq.yd. 5-in. broken stone base	.90	.94	1.03	1.02
37,884 sq.yd. 2-in. asphaltic concrete pavement	1.23	1.24	1.40	1.48
1,907 sq.yd. cutting and laying redressed granite block pavement, including cement sand bed and cement grout joint filler	1.90	2.17	1.80	2.23
223 sq.yd. smooth dressed granite block pavement including mortar bed and cement grout joint filler	6.00	5.90	6.50	5.92
1,240 sq.yd. portland cement concrete gutter pavement	1.95	2.75	2.48	3.00
518 sq.yd. vitrified block gutter pavement, including cement sand bed, cement grout filler and bituminous expansion joints	2.38	2.65	2.49	2.65
15 sq.yd. adjusting existing asphalt roadway pavement	1.65	1.50	1.50	1.55
60 sq.yd. asphalt adjustment to existing macadam roadway pavement	1.00	1.50	1.50	1.55
15 sq.yd. adjusting existing vitr. block roadway pavement	.50	.50	1.00	.75
15 sq.yd. adjusting existing redressed granite block roadway pavement, including cement grout joint filler	1.00	1.00	1.00	1.00
9,960 lin.ft. filling rail channel with cement mortar	.02	.03	.02	.04
8 No. 2 brick and stone inlets, including 3 ft. 15-in. vitr. clay pipe and excavation	150.00	193.00	170.00	190.00
9 constructing No. 3 brick and stone inlets including 3-ft. 12-in. vitr. clay pipe and excavation	140.00	185.00	160.00	170.00
2 reconstructing No. 2 brick and stone inlets, using new castings, including 3-ft. 15-in. vitr. clay pipe	140.00	185.00	150.00	180.00
65 lin.ft. furnishing and placing 24-in. vitr. clay pipe, including excav. and backfilling	3.15	6.55	4.00	12.00
285 lin.ft. furnishing and placing 15-in. vitr. clay pipe, including excav. and backfilling.	1.85	3.80	3.00	3.50
280 lin.ft. furnishing and placing 12-in. vitr. clay pipe, including excav. and backfilling.	1.60	3.00	2.60	3.00
515 lin.ft. furnishing and placing 6-in. vitr. clay pipe, including excav. and backfilling	1.35	2.00	.72	1.50
2 conc. water valve boxes (Bureau of Water Standard) including frames and covers	35.00	35.00	35.00	36.00
90 lin.ft. 3-ft. 6-in. diam. brick sewer, including excav. and backfilling	11.00	20.00	22.00	18.00
75 sq.yd. cement conc. footway pavement, including cinder sub-base	2.10	2.75	3.00	2.00
120 lin.ft. 8-in. straight granite curbing	2.70	3.00	4.20	4.00
313 lin.ft. 8-in. curved granite curbing	3.90	4.00	3.80	5.00
13,875 lin.ft. 8-in. straight unarmored 1:2:4 cement conc. curbing	.75	.85	.78	.90
1,185 lin.ft. 8-in. curved unarmored 1:2:4 cement conc. curbing	.95	.95	.88	1.00
55 lin.ft. resetting straight curbing, any kind or size	.40	.50	.50	.50
28 lin.ft. resetting curved curbing, any kind or size	.50	1.00	.50	.60
44,000 hauling old granite block 1 mi. or fractional part thereof, including loading	3.50	3.00	7.00	6.00
44,000 hauling old granite block each additional mile	2.50	2.00	3.00	2.25
2 cu.yd. furnishing and placing brick masonry, including excav	18.00	25.00	20.00	12.00
6 cu.yd. furnishing and placing rubble masonry, including excav	12.00	18.00	10.00	15.00
700 lin.ft. furnishing and laying 12-in. c.i. pipe (Bureau of Water Standard) including excavation and backfilling	3.35	4.60	3.00	3.25
800 lin.ft. furnishing and placing 6-in. c.i. pipe (Bureau of Water Standard) including excavation and backfilling	1.75	2.50	1.80	1.65
2,600 lin.ft. furnishing and placing 8-in. c.i. pipe (Bureau of Water Standard) including excavating and backfilling	2.20	2.50	2.37	2.10
12 ton furnishing and placing specials (Bureau of Water Standard) including excav. and backfilling	160.00	155.00	100.00	155.00
9 8-in. valves (Bureau of Water Standard) including excav. and backfilling	45.00	40.00	70.00	40.00
1 12-in. valve (Bureau of Water Standard) including excav. and backfilling	75.00	70.00	100.00	70.00
10 conc. water valve boxes (Bureau of Water Standard) including frames and covers	35.00	35.00	35.00	36.00
Totals	$246,354	$247,254	$252,658	$256,668

Engineering News-Record, issue of August 25, 1927

Itemized building costs on a club house in Ohio are presented on page 227 of the Business Side of Construction, in this issue. If you have some costs that would be interesting to other engineers, please send them to the Editor.

Wood blocks in Boston at $62.81 per M. for 45 M.

$6 *per sq.yd for asphalt* resurfacing 27,980 sq.yd in Syracuse, N. Y.

Constr. News page 104a

$4.80 *per yd. for granite* blocks on concrete repaving for 1709x69 ft. of Broad St., Philadelphia.

Deep wells in Bedford, Mass., at $6 per lin.ft. for depth exceeding 300 ft. but not 450 ft.; for 300 ft. well, $7.

$17.50 *per lin.ft. tunnel* 2,000x8x10 ft., in Vancouver.

Pipe line in Texas, 150 mi. of 15-in. main is estimated to cost $12,000.